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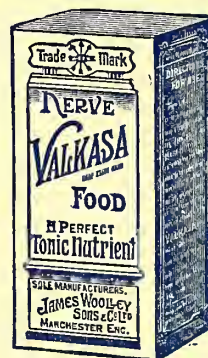
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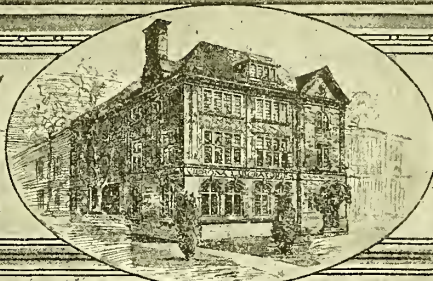
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# BISHOP'S PIPERAZINE CITRATE

## A REMEDY OF ESTABLISHED AND DEFINITE VALUE

IN GOUT, LUMBAGO, SCIATICA, NEURITIS, GRAVEL, STONE,  
AND ALL MANIFESTATIONS OF THE URIC ACID DIATHESIS.

Prescribed by the British Medical Profession for 20 years.

The undoubted superiority of Bishop's Piperazine Citrate, and preparations containing it, is due to the stability of the salt, Piperazine Citrate, which, being non-volatile and non-hygroscopic, undergoes no change upon exposure to heat or moisture, and thus lends itself to all manufacturing and dispensing processes.

Piperazine base, on the contrary, is so volatile and hygroscopic that it cannot be manufactured or dispensed with any degree of accuracy. Hence the unreliability of all Piperazine preparations that are not made with Bishop's Piperazine Citrate.

**PIPERAZINE CITRATE  
IS MADE ONLY BY  
ALFRED BISHOP, LTD.**

Bishop's Piperazine Citrate is the most powerful uric acid solvent known. It neutralises twelve times as much uric acid as any other alkaline solvent, and the resulting Piperazine urate is eight times as soluble as any other urate.

Bishop's Piperazine Citrate is non-irritant and non-toxic. It does not derange the digestive functions and is easily borne by even sensitive stomachs.

Bishop's Piperazine Citrate is supplied in crystalline powder for dispensing, and also in the Granular Effervescent form and Varelettes. The value and reliability of these preparations have been established by abundant clinical experience.

WE CAN, HOWEVER, SUPPLY PIPERAZINE BASE IN LARGE OR SMALL  
QUANTITIES, FOR MANUFACTURERS WHOSE PROCESSES CALL FOR IT.

Prices and Particulars on application to—

**ALFRED BISHOP, LTD. MANUFACTURING CHEMISTS,**

48 SPELMAN STREET, LONDON, E.1.



A copy of this Prospectus has been filed with the Registrar of Joint Stock Companies.

No part of the proceeds of the issue is to be applied for capital purposes outside the United Kingdom, or to replace money which has been so applied.

The Subscription List will open on Saturday, 31st May, 1919, and close on or before Saturday, 14th June, 1919.

---

# GENATOSAN, LIMITED.

*(Incorporated under the Companies Acts, 1908 and 1913.)*

**CAPITAL - - £264,000**

[DIVIDED INTO

£38,000 in Pre-Preference Shares of 2s. each.

£150,000 in Preference Shares of £1 each.

£76,000 in Ordinary Shares of 1s. each.

---

The Pre-Preference Shares carry a fixed cumulative preferential dividend of 14 per cent. per annum, and are also preferential as to capital, but carry no further rights.

Subject thereto, the Preference Shares are entitled to a fixed cumulative preferential dividend at the rate of 8 per cent. per annum on the capital paid up thereon, and are also preferential over the Ordinary Shares as to capital, but are not entitled to any further participation in profits or assets, all surplus profits and assets belonging to the Ordinary shareholders.

Of the above Shares, all the Pre-Preference Shares and 760,000 Ordinary Shares which formed the original capital of the Company have been issued and are fully-paid, and the remaining 760,000 Ordinary Shares (making the total authorised issue of 1,520,000 shares) have been issued as fully-paid up to the holders of such first-mentioned 760,000 Ordinary Shares by way of capitalisation of profits. None of the Preference Shares have yet been issued.

---

**Issue of 100,000 8 per cent. Cumulative Preference Shares of £1 each at par,  
payable as follows :**

On Application - - - - 2s. 6d.

On Allotment - - - - 7s. 6d.

and the balance in calls of not more than 5s. each at intervals of not less than three months.

The dividend on the Preference Shares will be paid half-yearly on May 31st and November 30th. The first dividend will be paid on the 30th day of November, 1919, and will be calculated on the sums paid on application and allotment from the dates of payment of the same.

*See three following pages*



DEAR SIR,

The rapid expansion of the production and business of this Company renders it necessary to provide additional working capital, for which there exist assured profitable openings. The present all-British Company (which acquired the former German-owned undertaking in February, 1917), has hitherto only been able to devote itself to the Home Trade, and notwithstanding the advantages enjoyed by the German proprietors; this branch of the trade is now responsible for a considerably larger output, for consumption in the United Kingdom alone, than was achieved at any time under the former German control.

The Company's four principal products—

SANATOGEN,

GENASPRIN,

FORMAMINT,

CYSTOPURIN,

have acquired a reputation for excellence and purity, which are the results of constantly improving methods of manufacture, and are fully recognised and appreciated by all branches of the medical and nursing professions, by both wholesale and retail chemists and by the general public.

The recent severe and world-wide epidemic of influenza has everywhere greatly stimulated the demand for the Company's products, and in particular Formamint and the new product Genasprin (Brand of Acetyl-Salicylic Acid), the latter being equal to, if not better than, the best German brands of Aspirin.

The time has now arrived, owing to the relaxation of Government restrictions, for the Company to undertake Export Trade, for conducting which it has kept in existence during the war the branches and agencies, with sales organisations of proved ability, established by the original German proprietors before the war, in Canada, South Africa, India, Australia, New Zealand, Egypt, China, Japan, South America and elsewhere.

To meet the necessary outlays in connection with the Export Trade and the acquisition of additional works required in connection therewith, and for meeting the rapidly expanding Home Trade, the provision of further working capital is considered advisable. Very profitable employment should be assured for new capital in both these directions.

The existing Factory at Penzance, Cornwall, being no longer able to cope with the demand for the Company's products, should, in the opinion of the Directors, be supplemented by the acquisition of new works where the present output can be considerably increased and the working expenses reduced, and the Directors have in contemplation one or two sites which they think would be suitable.

It is further proposed to make appreciable additions to the number of the Company's products by entering upon the manufacture of Fine Chemicals which were, prior to the war, largely a monopoly of German factories, and also to extend the Tin Box Department and manufacture containers for the Company's own products and those of the chemical trade generally.

The profits of the Company since its incorporation have been constantly increasing, and are already sufficient to cover the amount required for payment of the dividends on the Pre-Preference Shares and the present issue of Preference Shares several times over, whilst substantial dividends have already been paid on the Ordinary Shares, which are privately held,

See two following pages



principally by members of the Board of Directors and the Management, who depend for dividends upon these shares upon the remaining profits of the Company. In addition, profits to the extent of £38,000 have recently been capitalised by the issue of fully-paid Ordinary Shares to this amount to the existing Ordinary Shareholders.

As the Directors desire to give members of the medical and nursing professions and pharmacists a special opportunity of acquiring an interest in the Company, they have decided to offer the present issue of 100,000 8 per cent. Cumulative Preference Shares of £1 each at par, in the first place, to members of these professions.

The following information is given to comply with the Companies Acts, namely :—

*Voting rights* under the Companies Articles: each share confers one vote on a poll at General Meetings, but neither the Pre-Preference Shares nor the Preference Shares entitle the holders to vote at General Meetings of the Company, unless the dividend on their shares is one year in arrear, except on a resolution for the liquidation of the Company or on any other resolution which affects the rights of the Pre-Preference shareholders or the Preference shareholders (as the case may be), but a resolution for the issue of further shares ranking *pari passu* with the existing Pre-Preference or Preference shares is not to be deemed to affect the rights of the holders of such existing shares.

A contract has been entered into dated the 30th April, 1919, between the Company and R. Yeatman, contracting on behalf of all the ordinary shareholders, providing for the above issue to them of 760,000 Ordinary Shares by way of capitalisation of profits.

The minimum subscription fixed by the Articles is 7 shares, but the Directors will not proceed to allotment unless 50,000 shares are subscribed on this prospectus or otherwise.

A Form of Application is enclosed, which should be forwarded, together with cheque for the amount payable on application, to the office of the Company not later than June 14, 1919.

Subscribers to whom allotments are made will be advised of the date after which their Allotment Letters and Bankers' Receipts may be exchanged for the definite Share Certificates.

Where no allotment is made, the application money will be returned in full, and where the number of shares allotted is less than that applied for, the balance of the application money will be appropriated to paying the amount due on allotment, and any remaining balance returned to the applicant.

Failure to pay the amount due on allotment will render the allotment liable to cancellation and the application money paid liable to forfeiture.

Copies of the Memorandum and Articles of Association and of the above mentioned Contract can be inspected at the offices of the Solicitors of the Company on any week-day, except Saturday, whilst the list remains open, between the hours of 11 a.m. and 4 p.m.

Yours faithfully,

W. G. ASQUITH,  
General Manager.

12 CHENIES STREET,

LONDON, W.C. 1.

Dated the 30th day of May, 1919.

See following page



**Directors :**

THE RT. HON. THE VISCOUNTESS RHONDDA, Oaklands, Caerleon, Mon.

A. MITCHELSON, Esq., Hillside, Penarth, Glam.

J. GOMER BERRY, Esq., Granville, Gerrard's Cross, Bucks.

J. STANLEY HOLMES, Esq., M.P., 17 St. James's Place, S.W. 1.

H. SEYMOUR BERRY, Esq., Gwaelodygarth House, Merthyr Tydfil, Glam.

WALTER ROCH, Esq., 24 Sloane Court, S.W. 3.

W. G. ASQUITH, Esq., Uplands, Mill Way, Mill Hill, N.W. 7.

**Bankers :**THE LONDON COUNTY WESTMINSTER & PARRS' BANK, LTD.,  
109/111 New Oxford Street, London, W.C. 1.**Solicitors :**

LINKLATER &amp; Co., 2 Bond Court, Walbrook, London, E.C. 2.

**Auditors :**

CHALMERS, WADE &amp; Co., Chartered Accountants, 24 Coleman Street, London, E.C. 2, and Liverpool.

**General Manager :**

W. G. ASQUITH.

**Secretary and Registered Office :**

R. YEATMAN, 12 Chenies Street, London, W.C. 1.

---

---

**FORM OF APPLICATION.***To the Directors of***GENATOSAN, LIMITED,****12 Chenies Street, London, W.C. 1.**

$\frac{I}{We}$  request that you will allot  $\frac{me}{us}$  ..... 8 per cent. Cumulative Preference Shares of £1 each, or any less number of Shares that you may allot to  $\frac{me}{us}$  upon the terms of the Prospectus dated May 30, 1919, and of the Memorandum and Articles of Association of the Company, and  $\frac{I}{we}$  authorise you to place  $\frac{my}{our}$  name upon the Register of Members in respect of the Shares so allotted to  $\frac{me}{us}$ .

$\frac{I}{We}$  hereby declare that this application is not made by or for the benefit of an enemy subject within the meaning of the Trading with the Enemy Act, 1916.

$\frac{I}{We}$  enclose the sum of £ ..... , being a deposit of 2s. 6d. per Share, payable on application, for ..... Preference Shares of £1 each in the above Company, and undertake to pay the amount due on allotment, and the balance as provided by the said Circular.

Ordinary Signature.....

Name (in full).....

**Please write  
distinctly.**

Address.....

Occupation.....

Date.....1919.

Cheques should be sent with this form *direct* to the Secretary of Genatosan, Ltd., 12 Chenies St., London, W.C. 1.

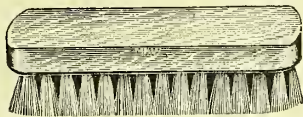
All Cheques should be made payable to "Order" and crossed.



# SIX SELECTED LINES

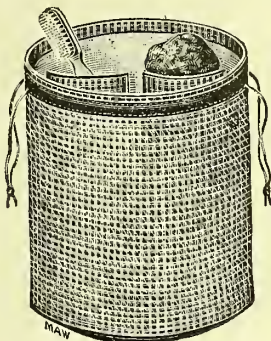
## ALL MAW QUALITY, AND SEASONABLE

You are sure of the utmost in value and satisfaction when you order these good goods. And the order form will ensure quick delivery.



No. 1250.

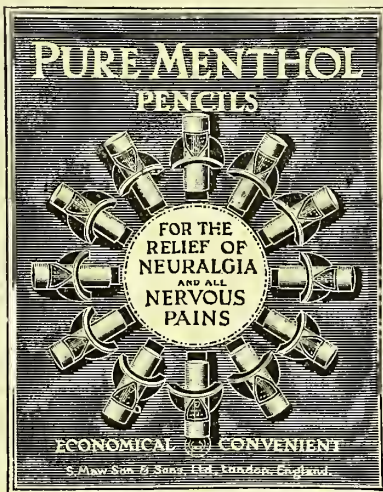
A good white fibre Nail Brush with plain unvarnished flat back to retail at sixpence. Price 3/6 dozen. Gross lots 36/- per gross net.



THE "UBIQUE."

One of the latest in Sponge Bags, the "Ubique." It contains four pockets inside.

Diamond check	...	24/- doz.
Super check	...	30/- doz.
Stout khaki	...	30/- doz.



The above novel display card printed in attractive colours measures 11" x 8½", and holds one dozen Menthol Pencils, each in handy pocket case.

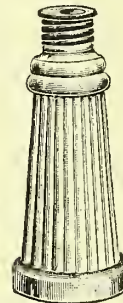
Price 6/9 doz, with card.



No. 160. Perfectly fitted cut globe-stoppered white fluted Salts Bottle, pol'd. bottom. Price 8/6 doz.

### A MAW'S PAGE INNOVATION.

In order to simplify our customers' work when ordering from Maw's Page, we have introduced an order form that only requires the addition of name, address, and quantities. Enclosed in ½d. envelope and addressed to Dept. 2, it will receive prompt attention.



No. S/3. Serviceable line of Tooth Powder Bottles. Fitted with strong revolving sprinkler top. 25/- gross.



For the prevention of midge, mosquito and other insect bites Maw's Antignat Powder Sachet is a most useful safeguard. Put up in neat and attractive envelopes as illustrated.

Price 4/9 dozen.

"Use the ORDER FORM."

# MAW'S PAGE

S. MAW, SON & SONS LTD.  
7 1/2 ALDERSGATE ST.  
LONDON  
E.C.1

No. 399.  
JUNE 7, 1919.

Use  
this  
form  
and  
save  
time.

No. 399

MAW'S  
PAGE

JUNE 7, 1919

ORDER  
FORM

To Messrs.  
S. MAW, SON & SONS, LTD.  
Dept. 2, 7 1/2 ALDERSGATE  
ST., LONDON, E.C.1.

Please forward the following goods as listed in this week's MAW'S PAGE.

ITEMS	QUANTITY	PLEASE LEAVE BLANK
Salts Bottles	.....	
Tooth Pdr. Bots.	.....	
'Ubique' Holdalls	.....	
Nail Brushes	...	
Menthol Pencils	...	
Antignat Powder Sachets	.....	

NAME AND  
ADDRESS:

CUT HERE ➡

DATE..... CONVEYANCE.....



# THE DIGESTIVE FERMENTS Co.

DETROIT, U.S.A.

## BACTOPEPTONE

Acknowledged to be the best and most reliable Peptone for Bacteriological use.

DIASTASE

PANCREATIN

PEPSIN

TRYPSIN

HÆMOGLOBIN

OX GALL

SODIUM CHOLATE

„ GLYCOCHOLATE

ORGANO-THERAPEUTIC PRODUCTS  
OVARIAN, THYMUS & THYROID SUBSTANCES, &c.

Address inquiries, orders, &c., to  
MAY & BAKER, LTD., BATTERSEA, LONDON, S.W.

“ John



” Bull ”

# MALT EXTRACT

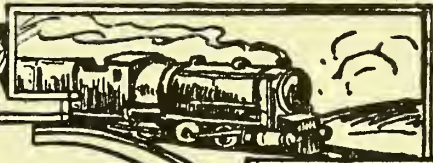
IS THE BEST!!!

RENOWNED FOR KEEPING QUALITIES.

*Wholesale & Export Only.*

**PAINE & CO., LTD., ST. NEOTS, HUNTS.**





BRIDGE BRAND.

## PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS

*For spot delivery.*

ACETYL SALICYLIC ACID  
BROMIDE of POTASH  
CHLORAL HYDRATE  
COCAIN  
EUCALYPTUS OIL  
METHYL SALICYLATE  
SALICYLIC ACID  
SALICYLATE of SODA

*Enquiries also solicited for our usual range  
of Pharmaceutical and Photographic Products.*

**R. W. Greeff & Co.**

THAMES HOUSE, QUEEN ST. PLACE, LONDON, E.C.4

MANCHESTER BRANCH:

Lloyds Bank Buildings, King Street.

NEW YORK AGENTS:

R. W. Greeff & Co., Inc., 80, Maiden Lane.



**ALL REACTIONS** of the body fluids and tissues are **COLLOIDAL**.

"Collosols" are pure and stable colloidal solutions, isotonic and isomorphic with the elements of the body.



"Collosols" are tested by ultramicroscopic bacteriological and clinical experiment.

The attention of Practitioners is specially invited to the **SECOND REPORT** on **COLLOID CHEMISTRY** just published by the **BRITISH ASSOCIATION** for the **ADVANCEMENT** of **SCIENCE** and issued by the **DEPARTMENT** of **SCIENTIFIC** and **INDUSTRIAL RESEARCH** for information on the extreme importance of colloids in **Physiology** and their application in **Disease**. In that report will be found the confirmation of the value in therapeutics of the **COLLOSOLS** of

**IODINE,**  
**SULPHUR,**  
**ARGENTUM,**  
**IRON,**  
**COPPER,**  
**ARSENIC,**  
**MERCURY,**  
**PALLADIUM,**  
and  
**MANGANESE.**

Particulars, Literature, and Reports from—

**THE CROOKES LABORATORIES,**

Tel.:  
PARK 1697.

50 Elgin Crescent, LONDON, W.11

# The usual trouble !



There will be the usual trouble in getting a sufficiency of Water Wings when the season is in full swim. The usual tale of missed sales and missed swims will be re-told for the "umpteenth" time.

Our machinery is busy manufacturing the Holiday Water Wings—the most efficient you can buy,—and we suggest you replenish your stocks now, and be prepared for the demand when it comes along.

The Holiday Water Wings

16/- per dozen.

SPECIAL QUOTATIONS TO LARGE BUYERS.

**Ayrton's Check  
Heavy Proofed Cap,  
with frill and  
adjustable headband**

**12/-** per dozen.

*AYRTON, SAUNDERS & CO. LTD.*  
**LIVERPOOL**





1 Kilo. 500 grs. 250 grs. 200 grs. 100 grs.

## "PREMO" Essences and Essential Oils.

The superior qualities of the "Premo" Essences and Essential Oils are due to long years of study and patient experiment by a famous French Perfume Compounder and Distiller. They are specially distilled for the manufacture of Toilet Preparations, and the secret of their great popularity is the fact that they are extremely effective while simple and easy to use.

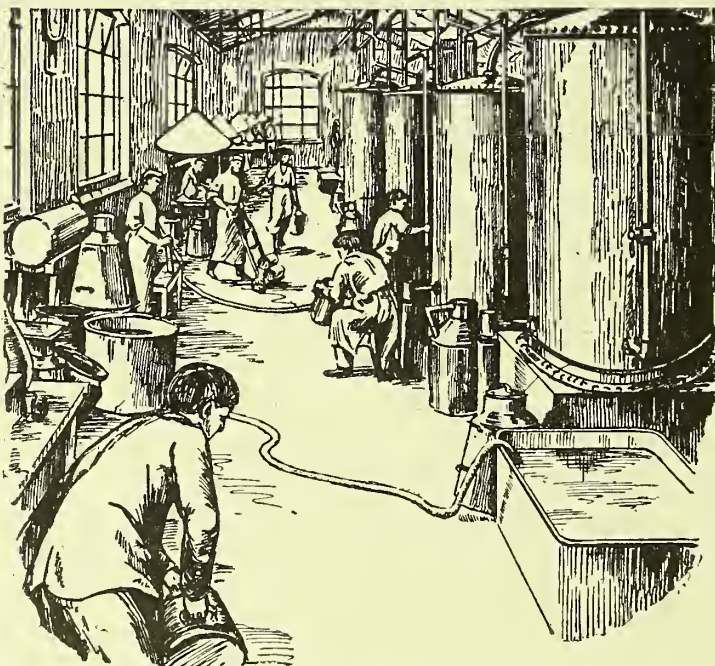
If you have not yet used the "Premo" Essences you should try them without delay. They save both time and money and make the manufacture of Toilet Preparations, etc., a genuine pleasure.

Nos. 2,000, 3,000 and 4,000 "Premo" Essences 10/6 per 100 grams. (equal 3½ ounces). £5 per 1 kilo (equal to 36 ounces).

No. 5,000 ditto, 25/- per 100 grams.

No. 7,000 ditto, from 45/- per 100 grams.

*Special Quotations for Large Quantities.*



Well-Distilled and Compounded Essences and Essential Oils make

# "PREMO" Essences and

*The Simplest and Quickest means of making up*

RECIPES SUPPLIED



Every Chemist who desires to adopt the Waters, Hair Washes, Lotions, Brilliantine "PREMO" Essences and Essential Oils of strength, quality and odour they are the natural flower. They are simple to make up with the "PREMO" Essences and Essential Oils most economical on the market, and a price. ALL bona-fide trade inquiries for Catalogue.

## The PREMO Concentrated

63 HIGH HOLBORN

"SIMPLE AND EASY"



# PREMO<sup>®</sup>

## Essential Oils

*all kinds of  
Toilet  
Preparations,  
Perfumes,  
etc.*

ORDER IF REQUIRED.



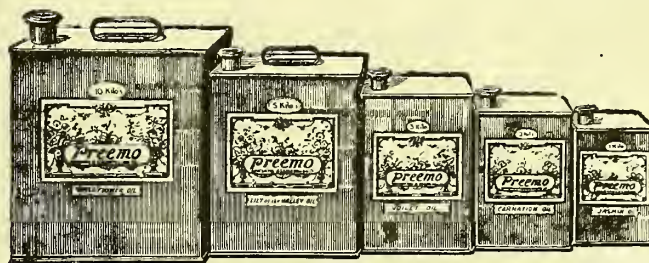
most profitable way of making up Toilet  
Preparations, should use the "Preemo" Essences  
of world-wide reputation, and in matters  
of quality Every essence has the true odour of  
the natural flower. A few drops  
of any Toilet Preparation can be  
used in minutes.

Without question the most successful and  
the busy Chemist.

etc., are promptly responded to.

**Preemo Essential Oil Co.**

LONDON, W.C.1.



10 Kilos.

5 Kilos.

3 Kilos.

2 Kilos.

1 Kilo.

### "PREMO" Floral Oils.

"Preemo" Floral Oils, like "Preemo" Essential Oils, are absolutely without equal. They are made in the same works, and within a very short time they have achieved a reputation second to none.

Each perfume has the true odour of the natural flower. A few drops used on one's hair gives the same delightful result as sprinkling the finest perfume on one's clothes.

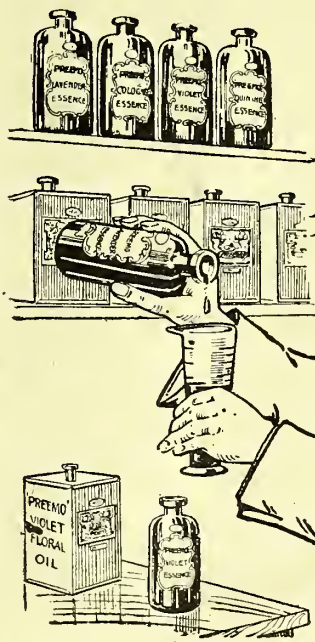
"Preemo" Floral Oils find a ready and profitable sale when put up in small bottles. They give great satisfaction which is the best of all Advertisements.

Supplied in three qualities, viz. :—

1st Quality	...	...	...	15/-	per Kilo.
2nd Quality	...	...	...	10/6	"
3rd Quality	...	...	...	7/6	"

(1 Kilo equals 36 fluid ounces).

Special Quotations for Large Quantities.



the Manufacture of Toilet Preparations,  
etc., Simple and Easy.

"PREMO" MOTTO.

# The Holoyd Page

## Sunshine Sales.

We've jumped—jumped from Winter into Summer, and the Public feel the change!

That condition will make these lines quick sellers:—

### Holoyd Lemonade Powders

(No Sugar required.)

1½d. Packets	...	...	...	13/-	per gross.
2½d. "	...	...	...	22/6	" "
4½d. "	...	...	...	40/-	" "
5 gross lots less 5%				10 gross lots less 10%	

### Holoyd Lemonade Tablets

(No Sugar required.)

7 tablets in glass tube, each tablet sufficient for one glass of delicious lemonade. Retail 6½d per tube.  
4/6 per doz. 6 doz. at 4/3. 12 doz. at 4/-

### "Facena."

(A Vanishing Face Cream which really vanishes.)

Packed in 1-oz. screw-cap glass jars. Attractively labelled. Minimum retail, 9d.

5/- per doz. 6 doz. at 4/3. 12 doz. at 4/-.

So make a Sunshine Window Show—we'll send you Showcards and Posters to help.

**H. O. LLOYD,**

*The Holoyd Laboratories,*  
Green Lane, Small Heath,  
**BIRMINGHAM.**

London Depot:  
3 Finsbury Square, E. C. 2





# THE "EMPIRE" HENNA SHAMPOOS.

A gilt-edged line for the Chemist.



The "Empire" Henna Shampoos are made with a Potash Soap base which leaves the hair very soft and wavy.

Where the hair has a tendency to curl, "Empire" Shampoo will enhance it.

The delightful perfume used is so delicate that repeat business is assured, and recommendations by the results obtained with "Empire" guarantee increasing sales.

## PRICES.

LOOSE, 15/- PER GROSS PKTS.  
DAINTILY PACKED IN BOX OF 6,  
9/6 PER DOZ. BOXES.

SPECIAL QUOTATIONS  
TO THE WHOLESALE  
AND EXPORT TRADE.



## The "Empire" Perfumery Co.

Cuxson, Gerrard & Co., Ltd.  
(Proprietors),

Oldbury, Eng.



The Right Mental Attitude towards anything new.

# Think appreciatively if you want to progress!



Any and every man tends to become "the sum of his sensibilities, and his world is bounded by the range of his appreciations."—(*The Qualities of Men.*)

So drop depreciation and think in terms of appreciation if you wish to get any good out of anything.

Even Ucal is practically powerless to help you until you "get the idea" that it *can*.

All we ask is an opportunity to convince you.

## FAIR PLAY FOR THE PHARMACIST.

### Let us Look Facts in the Face.

The founders of the Stores "drove a coach and four through" the Pharmacy Act. Their existence is contrary to the spirit of the Act—if not transgressing the letter.

But, now they are established there is small likelihood of any restrictive legislation, because they may quite legitimately argue that they provide a useful public service—pointing to the volume of business which they do as undeniable evidence. And their interests are buttressed by the huge amount of public capital invested in them—for money does "talk," especially in the legislature.

Why cry over spilt milk—why waste time in recriminations—why bother about what should have been done?

Why not rather take a leaf out of the enemies' book—and offer the public the standardised branded products for which they have shown an unmistakable preference?

Why not offer them lines which not only are good but which look good—which are well packed, so as to command respect?

To be sure, you can't afford to dress all your own specialities in smart modern style—but UCAL offers you a complete range of such articles bearing just as much profit—and far easier to sell.

Get into touch  
with  
"Ucal, Cheltenham"







PUT THE  
**Ker-nak**  
 BOY  
 IN YOUR WINDOW  
 NOW !

**EXPENSIVE MODEL LENT FREE.**

This beautifully coloured figure, standing 24 inches high, will be sent securely packed in crate, carriage paid, to every chemist purchasing **Ker-nak Pills to the value of 50/-**. These will be supplied on the usual Window Show Terms of 5 per cent.

The only stipulation is that, after 2 weeks' show, the Ker-nak Boy must be sent to a new address which will be supplied.

**ORDER FORM.**

NAME .....

Address .....

Date .....

**To Messrs. C. E. Fulford, Ltd., Carlton Hill, Leeds.**

*Please send "Ker-nak Boy." I agree to give 2 weeks' window display, and forward the figure (carriage at your expense, to a new address which will be supplied. I enclose order which includes at least 50/- value of Ker-nak.*

Yours truly,

Signature .....

**PRICES OF KER-NAK:** 1/3 size, 12/6 doz.; 3/- size, 28/- doz. (Minimum Prices Face Value)



**SAVE 3/- PER GALLON**  
**BY BUYING**  
**GUARANTEED GENUINE**  
**NEWFOUNDLAND NON-FREEZING**  
**MEDICINAL COD LIVER OIL**  
**OF NEW SEASON'S MAKE.**

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

**WHOLESALE ONLY.**

*Kindly write for sample to*

**JOB BROS., Manufacturers, Tower Building, LIVERPOOL.**

Telegraphic Address: "JOB LIVERPOOL"

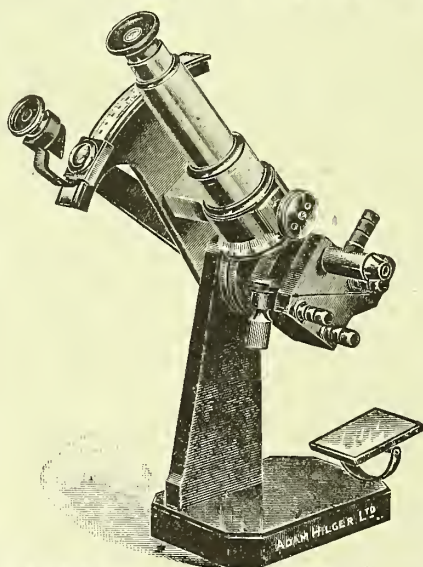
Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F.

Established 1780.

ONE HUNDRED YEARS

**OIL OF CLOVES in 1814**  
**NICOTINE - - in 1918**



Since the first industrial application of refractometry by Wollaston in 1814, an enormous number and variety of pharmaceutical and other substances have been brought under this mode of control.

**THE ABBE REFRACTOMETER**

made by ADAM HILGER, Ltd., is, by reason of its accuracy and rapidity in use for such tests, an indispensable instrument for every control or research laboratory.

Delivery in four weeks from receipt of order.

*Descriptive Booklet post free on application to DEPT. H. —*

**ADAM HILGER, LTD.**

**75a Camden Road, LONDON, N.W.1.**

Telephone: North 1677-8.

Telegrams: "Sphericity, Phone, London,"



# One Moment, Please!

THE TIME IS NOW RIPE FOR ORDERING  
YOUR SUPPLIES OF

## DISINFECTANTS

FOR WHICH THERE WILL BE (BY REASON OF RECENT EPIDEMICS) LARGER DEMANDS THAN EVER—THEREFORE FORESTALL THESE DEMANDS BY PLACING AN ORDER FOR A PARCEL COMPRISING THE FOLLOWING

## LEADING LINES



"Cofectant" Fluid, in 8-oz. tins, at 10/- doz. Retail Price, 1/3 tin.



For all Bactericidal Affections of the Respiratory Tract. Invaluable to Speakers and Singers. 10/- per doz. boxes. Retail Price, 1/3 per box.



A Pure Triple-Milled Soap, containing a suitable percentage of Cofectant. Invaluable for preserving a Clear Skin from Blemishes, etc. 15/- per doz. 3-tab. boxes. Retail Price, 8d. per tablet.



"DECITAS" Fluid. A Good Household General Disinfectant Fluid. In 4-oz. bottles at 4/9 doz. Retail Price, 7d. bottle.



A Fragrant Fluid for all Spraying Purposes. 8/- doz. tins. Retail Price, 1/-



Cook's Pure British LYSOL. At 10/- per doz. bottles. Retail Price, 1/3 bott.

EDWARD COOK & CO., LTD., BOW, LONDON, E. 3



# "Regina" always profitable

## PRICE'S REGINA SHAVING STICK



### "REGINA" FLIES.

Observe how your stock of "Regina" flies. It pays you to stock this Shaving Stick.

Because it is nationally advertised.

Because there is at least twelve pennyworth of value in every shilling stick.

Because repeat orders follow.

If you have not had your sample let us send you one.

Attractive Showcard  
Arresting Publicity  
Immediate Sales



# PRICE'S

BATTERSEA LONDON S.W. II



By Royal Warrant of Appointment  
to H.M. The King.



By Royal Warrant of Appointment  
to H.M. The King.

Only  
**ONE**  
Address.

**DAY & SONS,** ESTABLISHED 1840.  
**CREWE, LTD.** (CREWE)  
HORSE, CATTLE, SHEEP & DOG MEDICINES.

Only  
**ONE**  
Address.

**LARGEST SALE IN THE WORLD.**



### DAY'S BLACK DRINK

Cures Colic or Gripes in Horses or Cattle, Scour and Weakness in all Young Stock, Blown Cattle and Sheep, Debility, Chills and Low Condition in all Stock.

Price 1/8 per bottle

### DAY'S HUSKOLEIN

Almost infallible for Tape Worms in Lambs and other Animals; for Husk or Hoose in Calves, Lambs, &c. A speciality for Worms in Horses and Colts.

6/6 per bottle

### DAY'S ZOMO-SAL.

For Blood Disorders, Humours, General Weakness, Surfeits, Indigestion, Sterility, &c., in Horses and Beasts. Promotes Growth of Bone. Makes animals "fit" for Show or Sale.

In Canisters at 7/6, 20/-, and 40/-

### DAY'S RED DRINK

OR COW DRENCH.

For Costiveness, Loss of Cud, Indigestion, Garget, Colds, Fever, Hidebound, &c., in Cattle. Prepares Cows for Calving. Prevents Milk Fever, and cures Bad Cleansing.

12/- per doz. packets.

The Ewe Drench for Ewes, 3/6 per doz.

### DAY'S OILS

(THE PURIFIED DRIFFIELD OILS)

Heal all Wounds in Horses, Cattle, and Sheep, Sore Tests and Swollen Udders in Cows and Ewes. For Anointing in difficult Lambing or Calving.

2/6 and 6/- per bottle.

### DAY'S WHITE OILS.

A Safe Embrocation for Sprains, Swellings, Windgalls, Sprung Sinews, Rheumatism, Sore Throat, Weak Joints, &c.

2/6 and 6/- per bottle.



### DAY & SONS' "ORIGINAL" MEDICINE CHESTS

Price £1 4s., £2 4s., and £5. Carriage Paid.

Arranged for Horses, Cattle and Sheep; Horses only; or to suit any class of stock.

WHEN ORDERING PLEASE STATE REQUIREMENTS.

The Chest illustrated is similar to that at £5 and £2 4s.

GREAT SPECIALITIES.

N.B.—The above prices are now advanced. Preparations 15 %; Medicine Chests to £1 8s., £2 12s. and £5 respectively.

ONLY GENUINE FROM

**DAY & SONS, CREWE, LTD., CREWE, England**

LIBERAL TERMS FOR FOREIGN BUYERS.





SURGICAL DRESSINGS AND CHEMISTS' SUNDRIES

## CARBOLIC TOOTH POWDER

In Fine Decorated Tins, **1/4** per dozen.

## OUR WELL-KNOWN BRAND PERFECTUM TOOTH PASTE

Assorted Flavours, **5/-** per dozen.  
Packed in separate Cartons, or six in Showcase  
assorted.

INQUIRIES SOLICITED.

### ARTHUR BERTON, LTD.

Manufacturers,

15-17 Worship Street, LONDON, E.C. 2

Telegrams— "Ayebelim, Finsquare, London." Phones— London Wall 507, City 998.

OVER 100 % PROFIT  
ENSURED & PROTECTED (P.A.T.A.)  
for sellers of

## Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	} per doz. less 5% discount.
1/6	1/6	9/-	
2/6	2/6	15/-	
3/6	3/6	21/-	

### SPECIAL BONUS

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. / 6 doz. do. 8 bottles gratis.

Do. 12 doz. do. 18 bottles gratis.

Equivalent in the case of the size in most general demand, viz. 1/6 size, to 4/6, 12/- and 27/- respectively.

SOLE PROPRIETORS—

**C. R. HARKER, STAGG & MORGAN,**  
**DEVON WHARF,** LTD.

Emmott Street, Mile End, London, E.1.

## ELEY BROTHERS, LIMITED

specialise in the manufacture of  
the following articles at the lowest  
prices :

## Shaving Stick Cases

## Oval and Round Tops

for Powder Tins, Cruets, Dredgers, etc.

## Metal Boxes

for Dentifrices, Soap Tablets, etc.

## Ferrules

for Walking Sticks, Whips, Bamboo  
Fittings, etc.

## Pencil Fittings

in any of the following metals : Brass,  
Copper or White metal (nickel or silver  
plated) Aluminium and Jewellers'  
Metal (Tombac).

*During the continuance of the War we cannot undertake orders to make any of the above goods requiring one or more of the metals for their manufacture of which the use for commercial purposes has been prohibited by H.M. Government; but we invite inquiries, as we still have some articles in stock which were made before the prohibition was issued.*

## ELEY BROTHERS, Ltd.

(Dept. 21), Edmonton, London, N.

# TERPENELESS OILS

BRITISH MADE.

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the World.

**WE SPECIALISE IN TERPENELESS:**

Anise (Anethol)

Bay

Bergamot

Caraway

Cassia

Cinnamon

Clove

Dill



Geranium

Ginger

Juniper Berry

Lavender

Lemon

Limes

Mandarin

Nutmeg

Orange

Peppermint

Petitgrain

Rosemary



**CINNAMIC**

**ALDEHYDE**

**GERANIOL**

**CITRAL**

**EUCALYPTOL**



## HOLLANDS DISTILLERY, Ltd.

Lavington Street, Southwark, London, S.E. 1.

A B C Code (5th Edition),  
Western Union.

Telegrams: "LANDSLOH LONDON,"  
Telephone: HOP 898.

AMERICAN AGENTS—O. A. BROWN CO. INC., 99-101 Beekman St., New York.  
CANADIAN AGENTS—F. S. JARVIS & CO., 18 Toronto Street, Toronto.



# Ingram's MILKWEED CREAM

Has been CONSISTENTLY ADVERTISED in the best AMERICAN and CANADIAN PERIODICALS for twenty-five years.

A Medicinal Toilet Cream with a world-wide demand that is rapidly increasing. Two sizes: 2/-, per dozen 16/-; 4/-, per dozen 32/-

Prepaid Parcel Post to Great Britain and her Asiatic and African Colonies. Samples and store displays free with every order.

**Introductory Offer. Cost £2; Retails 60/-—Profit 20/-.**

1/2 Doz.	Ingram's Milkweed Cream	...	...	Retails 2/-	Price 8/-
1/2 Doz.	"	Velveola Souveraine (Face Powder)	"	2/-	" 8/-
1/2 Doz.	"	Zodenta Paste for the Teeth	"	1/-	" 4/-
1/2 Doz.	"	Rouge, Light, Medium, Dark	"	2/-	" 4/-
1/2 Doz.	"	Perfume, 1 oz. assorted in fancy packages	...	4/-	" 16/-
100 Guest Room Packages free.					£2

Shipped via Parcel Post Prepaid.

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, inviting them to call at your store and get our Guest Room Package free, containing one each of the above in sample sizes, including Perfume.

If more convenient to you, specify shipments from our Canadian Plant.

FREDERICK F. INGRAM COMPANY (Established 1885).

411 Lafayette Boulevard, Detroit, U.S.A. Canadian Plant: Windsor, Ont.



Twenty-five years' continuous advertising has made this trade mark known wherever American and Canadian publications are read.

## TINORI PAINLESS CORN CURE

P.A.T.A. 1/3. From all Wholesalers.

**E. MAC SWEENEY, Manfg. Chemist, CORK.**

## PERFUMERS ! SHORTAGE OF LABOUR

Advertisers are prepared to undertake the blending of Shampoo, Tooth, and other Toilet Powders, in large or small quantities at lowest possible rates. Good workmanship and prompt delivery. Ingredients supplied if desired at lowest market prices. Write, stating requirements.

**MARTIN & CO., 71 City Road, Finsbury, London, E.C.1.**

Established 1839.

## Chemists' Overalls Gardiner & Co.

We supply protective overalls and aprons in any colour or style required. They are made by experienced hands for all branches of the chemical trade.

Keenest Quotations sent on request, or a special representative will be pleased to call.

Head Office: Gardiner & Co. (The Scotch House) Ltd.  
1 Commercial Road, E. 1.

Phone: 6650 Ave!

## KO-TAL-KO

**IS ASKED FOR EVERY DAY  
BY YOUR CUSTOMERS**

**Stock "KO-TAL-KO" because**

You cannot offer or sell a more effective hair restorer and maintainer—one more natural in its principles and certain in its effects.

Your regular customers will want it from you, and if they do not obtain it at your store will be tempted to go elsewhere.

You will never have your stock of "KO-TAL-KO" tying up your capital uselessly—on the other hand, your repeat orders quickly follow.

My trade terms will suit you, for they allow you to make your proper and deserved profit, and you are working on sound business all the time.

**NOTE TRADE TERMS (P.A.T.A.)—**

5/-	Size	...	...	...	48/-	per dozen
12/6	"	...	...	...	112/6	"

**J. HART BRITTAIN, Ltd.**

(Dept. C.D. 1).

**2 PERCY ST., LONDON, W.1**

## KO-TAL-KO



**LABORATORY  
OF GENERAL PHARMACOLOGY,  
8, Rue Vivienne, Paris.**

**LONDON AGENTS:**  
**WILCOX, JOZEAU & Co., 49, Haymarket; S. W.**



**CHAPOTEAUT'S  
CAPSULES of  
PHOSPHOGLYCERATE  
of LIME.**

**THE BEST TONIC FOR  
FORTIFYING AND BUILDING UP  
THE NERVOUS SYSTEM.**

*Sold by all Chemists.  
Wholesale: 8, Rue Vivienne,  
PARIS.*

**MORRHUOL CHAPOTEAUT**



**CAPSULES**

MORRHUOL DE CHAPOTEAUT  
is extracted from cod-liver oil, and  
contains all its efficacious prop-  
erties without the disagreeable taste.

*It cures Coughs, Bronchitis and Catarrh,  
restores the appetite, and gives force to  
feeble persons.*

**SOLD BY ALL DRUGGISTS.**

**CHANDRON'S  
DROPS**

**(Gouttes des Colonies)**

**A harmless antiseptic  
preventative against CHOLERA-  
FERMENTATION-INDIGESTION  
Other intestinal disturbances.**

**SOLD BY ALL CHEMISTS**

*I find the odor exquisite and  
will be happy to have it called  
by my name. Very sincerely,  
Mary Garden*

**PARFUM**  
**MARY**  
**GARDEN**  
**RIGAUD**  
PARFUMEUR  
16, RUE DE LA PAIX,  
PARIS.

**LONDON AGENTS**  
**HEPPELL & CO., 164, Piccadilly, W.**



# Veldt Cream

LABEL-TITLE. COPYRIGHT

## The Inseparable, just Pourable, Vanishing SKIN FOOD

of Stearine base, combined with rare ingredients,  
imparting the natural whiteness and waxy soft-  
ness of the water lily to  
**HANDS AND ARMS.**

Does not interfere with the sale of Face Creams,  
as it is something quite apart.

**Pays 45% on Monthly Bonus Terms.**

Retail	Size	Price	Free Bonus on quantities named, or <i>pro rata</i>		
5d.	1-oz. bottles	48/- gross	2 doz.	1/- with ea. gross	
1/-	3-oz. "	9/6 doz.	2 "	1/- "	6 doz.
1/9	6-oz. "	15/- "	2 "	1/- "	4 "
2/9	12-oz. bath size bots	27/- "	2 "	1/- "	2 "

### A vigorous Advertising Campaign in preparation

A set of five sale-compelling Showcards (in-  
cluding two reproductions from water-colors)  
and a 2/9 (retail) Showbottle FREE with  
each carriage-paid order to the value of £3.

*Obtainable on bonus terms only from—*

**THE VELDT LABORATORY, Louth, England,**  
*or through our Special Agents,*  
**AYRTON, SAUNDERS & CO., Ltd., LIVERPOOL.**

# BRITISH ODOL



C.V. & S. 12.

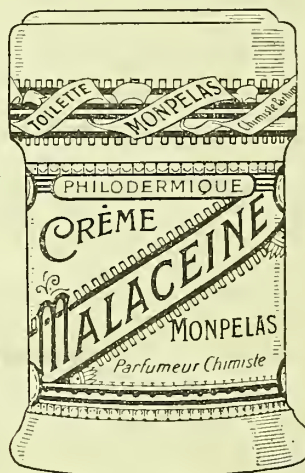
Send for Price  
List and Trading  
Terms.

*Revised  
Retail Prices.*  
**Grand Double  
Flask  
5/3**  
**Full-size Bottle  
3/-**  
**Half-size Bottle  
1/9**

**ODOL**  
**Chemical Works,**  
**BERKHAMSTED.**

# CRÈME MALACEINE

MANUFACTURED BY  
**PARFUMERIE MONPELAS,**  
**PARIS.**



No. 62	63	64
Small	Medium	Large
<b>15/-</b>	<b>30/-</b>	<b>50/- doz.</b>

*An Extensive Advertising  
Campaign in all the  
principal Society Journals  
is now proceeding.*

Write for SPECIAL TERMS and  
particulars of other MALACEINE  
PRODUCTS to the Sole Wholesale  
Agents for Great Britain and Ireland:

**WILLIAM TOOGOOD, LTD.**  
**77 Southwark Street,**  
**LONDON, S.E. 1.**



## SPECIAL WINDOW-SHOW OFFER

YOU purchase an assorted parcel of Ven-Yusa Cream Soap, and Shampoo Powders value	£2 10 0
WE allow you for Showing Cards ... ..	0 5 9
Net Credit Terms	£2 4 3
IF CASH ENCLOSED deduct 2½ per cent. ...	0 1 3
Net amount to send	£2 3 0

**YOUR PROFIT on the Investment will be 50%**

Larger Orders are accepted on pro-rata terms, 2½ % extra allowed  
on orders of 12 times above quantities, if cash with order.

**MINIMUM PRICES FACE VALUE.**

## ORDER FORM.

**To Messrs. G. E. FULFORD, LTD., Carlton Hill, LEEDS.**

Date .....

Dear Sirs,

Please supply on Window-Show Terms—

		£	s.	d.
.....Gross.....Doz. 1/- size Ven-Yusa Cream	... @ 9/3 doz.			
.....Gross.....Doz. 6d. ,, ,, Soap	... @ 4/6 ,,			
.....Gross.....Doz. 1/6 ,, ,, Shampoo Powders	13/6 ,,			
	(7 3d. Shampoos in packet)			
.....Gross.....Doz. 3d. packets ,, Shampoo Powders, 22/- gross				
	(6 doz. Cartons only)			

Remittance enclosed £ : : £

Name and Address .....

**MINIMUM PRICES FACE VALUE.**

**Note.**—If Cash does not accompany order, references should be  
given for New A/cs. **Credit Terms are Strictly Net, 30 days.**



## RAYOLENE BLACK JAPAN.

The best preparation for Fire Ranges, Cycles, Mail Carts, Gas Stoves, &c. Exactly the same quality as supplied to Coach and Carriage Painters. A splendid selling line, and far superior to methylated spirit preparations.

	9d. Tins.	1/6 Pints.	Pints.	
Retail Prices	9d.	1/6	2/9	
Wholesale	6/6	12/6	22/-	per dozen.

## RAYOLENE OIL VARNISH STAINS.

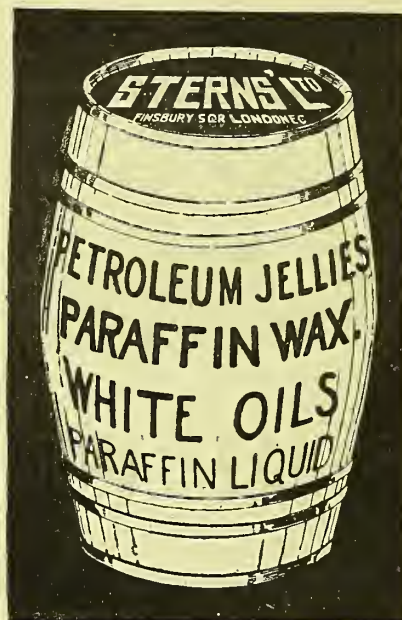
Much easier to apply than quick drying spirit varnishes. Dries hard in about 8 hours, with a brilliant and durable lustre. Made in three popular shades—oak, walnut and mahogany.

	9d. Tins.	1/6 Pints.	Pints.	
Retail Prices	9d.	1/6	2/9	
Wholesale	6/6	12/6	22/-	per dozen.

**SPECIAL OFFER.**—One box, containing 8 dozen 9d. tins (or 4 dozen 9d. and 2 dozen 1/6 tins) your selection, sent, carriage paid, box free for 48/- net. 3 boxes less 5% discount.

*Write for Complete Price List.*

**TEXALO MANUFACTURING CO.,**  
*Paint & Varnish Manufacturers,*  
**South Shore, BLACKPOOL, Lancs.**



## STERN'S LIMITED

A.D.5., Royal London House, Finsbury Sq., E.C. 2.

Telephone :  
3797 LONDON WALL.  
(Four Lines.)

Telegrams :  
"CENTUMVIR, PHONE, LONDON."  
(Two Words only.)

**IMMEDIATE DELIVERY**

## GATES' BOTTLE CAPPING SKINS



### SNOW-WHITE OPAQUE ROLLED SKINS.

**SOMETHING QUITE NEW.** These Skins are damp and **READY FOR USE.** The raw material for Baudruche manufacture being now unobtainable, I have put this new production on the market in its place. **ABSOLUTELY AS OPAQUE** as Split skins and equal in appearance.

"Mine beat  
all others."



*Sole Pioneer and Only  
English Manufacturer :*

**LESLIE GATES**  
**HAILSHAM, SUSSEX.**

Another New Speciality.—Try my  
**TRANSPARENT SHEEPBAUDRUCHE  
CAPPING SKINS.**

THE CHEAPEST & MOST EFFECTIVE CAPPING EVER PRODUCED.



**A DAMP DUSTER**  
is all that is needed to  
restore the pristine  
beauty and polish of any

## SEMREH

**BOTTLE CAP**  
that has become soiled.  
SEMREH Caps give  
no trouble in fitting—  
or afterwards.  
**THE VISCOSÉ**  
Development Co., Ltd.,  
**BROMLEY, KENT.**  
*Prompt dispatch can be  
presented by given.*

## You can see

**EASILY** the advantage of making your advertising original and distinctive by using our copyright Blocks. We keep a register of all Blocks sold, and do not send the same Block to your competitors in your town or district. Chemists and Opticians will make their advertising more profitable by using our Business Bringing Blocks.

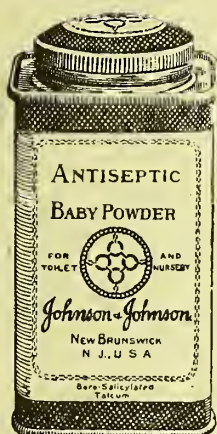
Ask us to send you our Book of Designs for 3 days. We pay postage both ways.

**CHEMISTS' DESIGN SERVICE,**  
**12 Humberstone Gate, LEICESTER.**



D 232 .. 3/2.





Look for the  
Name and  
Trade Mark.

## ANTISEPTIC BABY POWDER

MANUFACTURED BY

*Johnson & Johnson.*

We wish to warn our Customers, so that they may be on their guard, that our package is being imitated. This step, which is so easy, is an undignified and shabby attempt to rob us of our goodwill.

### WARNING.

The contents cannot be imitated, and the Trade Mark cannot be imitated; and we would ask those Customers who have handled this preparation for a quarter of a century, with every satisfaction to themselves and to their clients, to resent this method of copying other firms' productions by insisting on having the original package bearing the registered Trade Mark, which is the guarantee of quality.

JOHN TIMPSON & CO., Ltd.,  
104 Golden Lane,  
LONDON, E.C.

## "Strodonia"

VANISHING CREAM

For displaying a small showcard, we make the following offer on INITIAL DIRECT ORDERS (One parcel only):—

1 <sup>1</sup>/<sub>2</sub> dozen 7½d. selling for 11 3  
" 1/- " " 9 0

For 10/- cash with order, carriage paid. 20 3  
7½d. and 1/- " " 5/6 and 9/- per dozen.

From London Wholesalers.

Direct Orders value £5 subject to 10% discount and 1 doz. 1/- size bonus for window display, showing 38% on Turnover.

STRODE COSH & PENFOLD, Manufacturing Chemists,  
LOWER UNION ST., BRISTOL.

## The EVAN-WILLIAMS

Always in Great Demand.  
Price List on Application.

The Evan-Williams Co., Ltd., 18, Ogle Street, W.1.

Original Henna SHAMPOO.

All Chemists and Stores adjacent to Theatres and Music Halls should stock the famous

**LEROZA** Theatrical Cold Cream and Grease Paint Remover.

Used and recommended by all the leading Artistes, including The Two Bobs, Ernie Mayne, Miss Victoria Monks, Shaun Glenville, and scores of others too numerous to mention. Sells at 1/6 per tin box (about ½ lb. costs 13/3 per dozen carriage paid. Cash with order.

From the Sole Inventor and Manufacturer, ARCHIBALD MOLE-FLOYD,  
THE LEROZA THEATRICAL STORES, 75 Cambridge Street, Glasgow.

## "Newberys"

FRANCIS NEWBERRY & SONS LTD.

"A1"

## SHAVING CREAM

UNDER ROYAL, NAVAL &  
MILITARY PATRONAGE.

This High-Class Shaving  
Cream will appeal to the  
élite of your Customers.

Add to your Stock a few A1  
Shaving Cream, and be wise.

18/- per dozen.

CHARTERHOUSE SQUARE,  
LONDON, E.C. 1.



# IT PAYS TO PUSH JOHN BOND'S "CRYSTAL PALACE" MARKING INK



6d. size, 3/7 per doz., Minimum protected selling price, 5d. 1/- size, 6/7 per doz., ditto 9d.

This will show retailers a profit on the 6d. size of no less than 40 per cent. The rate of profit on the 1/- size will remain the same.

MINIMUM ORDER AT WHOLESALE RATES :—One Gross of 6d. size amounting to 38/- or assorted order to same value. 1/- size 69/- per Gross. Carriage paid on parcels of £5 and upwards. Smaller quantities should be ordered through any of the Wholesale Houses.

When ordering, please specify if HEAT or NON-HEAT is required. A good assured minimum Profit on this Marking Ink which will always make new customers.

Compare with what you are paying for other makes, and NOTE the difference.

Manufactory : 75 SOUTHGATE ROAD, LONDON, N. 1.

## WE ADVISE YOU TO STOCK OUR "MOOVIT" CORN PENCILS

which are being extensively advertised. This continual advertising, proven merit, and satisfied customers, have created a steady demand. We furnish attractive showcard and window bills. Why not keep a supply and profit by the easy sales created?

Try a sample dozen 10/-; sells at 15/-

which gives you a very handsome profit, and is on the P.A.T.A.

Cash with Order. All goods are carriage paid. The time to order is now, while you have the matter before you.

**TALBOT WILSON,**  
20 HIGHGATE ROAD, LONDON, N.W. 5

## TO CREATE TRADE

stock lines that recommend themselves.



Quencholeen requires no sugar.

Quencholeen will bring you customers and add to your reputation.

Quencholeen pleases everybody and retails at 1½d. per pkt., or in cartons of 13 pkts. for 1/6.

**Trade Terms.**

13/- per doz. cartons, 5 doz. lots, 12/- per doz. net, together with showcards and window bills complete, cash with order. Carriage Paid.

**The Violiv Manufacturing Co.,**  
26 Haymarket Terrace, Edinburgh.



# BIDWELLS' LTD.

## RELIABLE TOOTH BRUSHES.

Gloria Silverdrawn,	18/-
Mitre - - -	14/-
Elephant - -	12/-
Anchor - - -	10/-

GROSS LOTS NAMED FREE. CARRIAGE PAID.

*We invite you to try them.  
We guarantee satisfaction.*

A selected £10 parcel of Hair Brushes from 30/- to 100/- per doz., carr. paid.

Made at our Factories, AXMINSTER, DEVON.

# ZENOBI

LIMITED

beg to announce the following alterations to the Retail Prices of their

## SWEET PEA BLOSSOM, NIGHT-SCENTED STOCK, &c. &c.

Old Prices	-/5	2/3	3/6	5/-	7/-	15/-	30/-
New Prices	-/6	2/6	4/-	5/9	8/3	17/6	35/-

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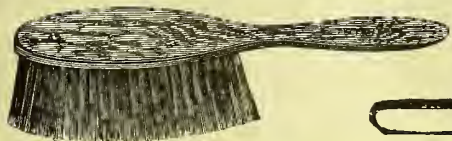
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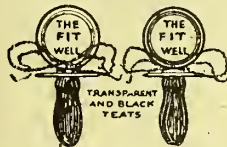
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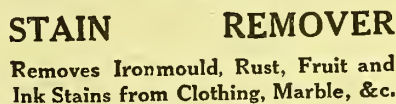
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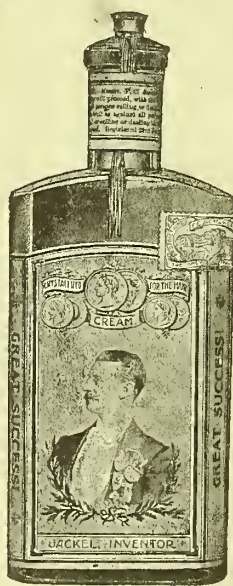
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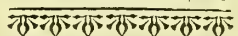
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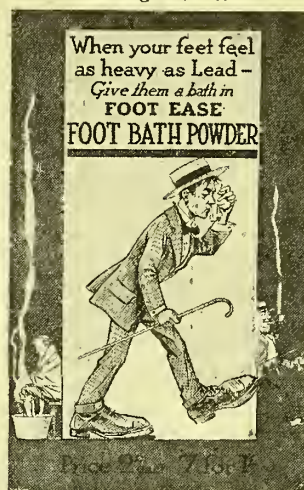
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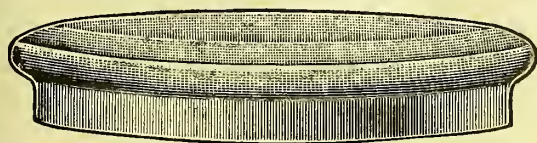
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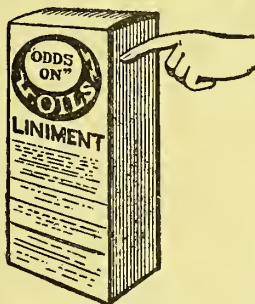
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*In a leading article in the “Medical Press” of June 26, 1918, occurs the following:—*

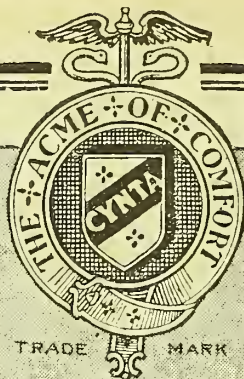
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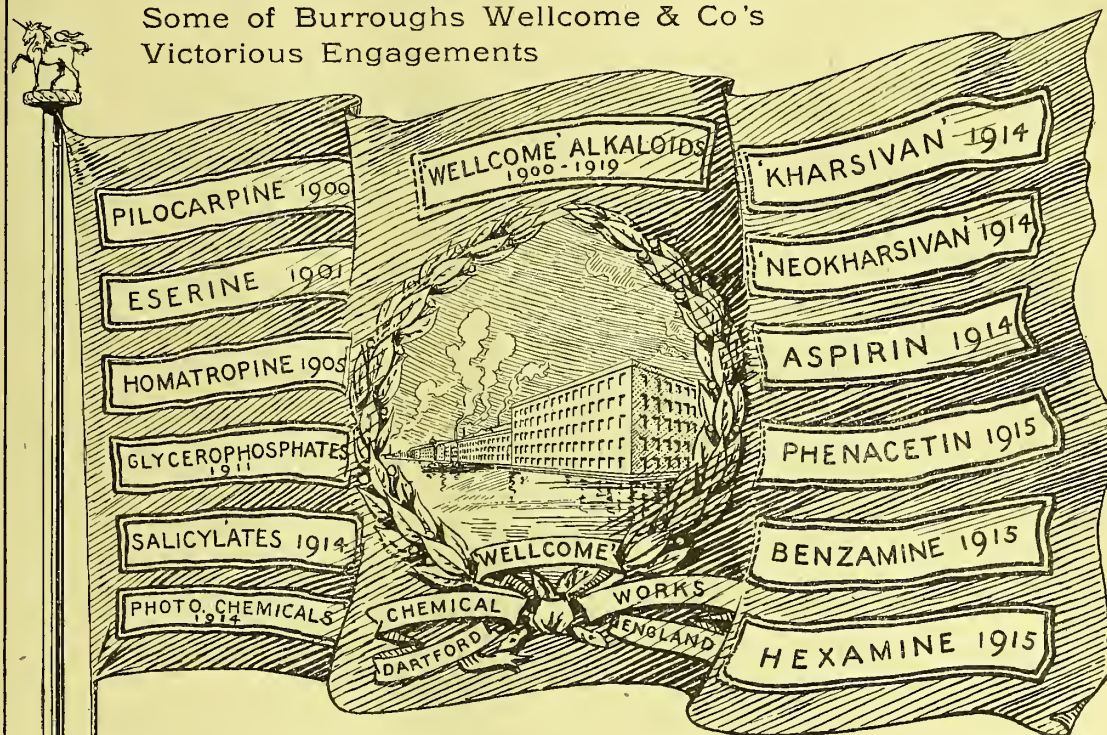
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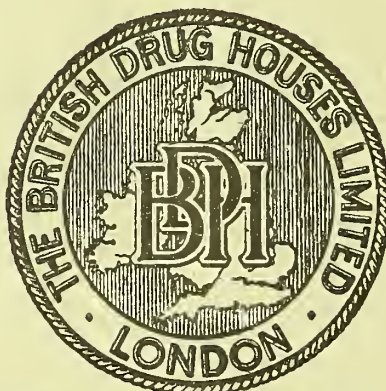
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## Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

#### Tuesday, June 10.

Pharmaceutical Society of Great Britain (North British Branch), 165 Hill Street, Charing Cross, Glasgow, at 7.30 P.M. Address by Sir William Glyn-Jones.

#### Wednesday, June 11.

Pharmaceutical Society of Great Britain (North British Branch), 36 York Place, Edinburgh, at 7.30 P.M. Address by Sir William Glyn-Jones.

Edinburgh Chemists', Assistants', and Apprentices' Association, Caledonian Station, Edinburgh. Botanical Excursion to Colinton Glen. Conductor: Mr. J. Rutherford Hill, Ph.C. Train leaves 7.10 P.M.

#### Thursday, June 12.

Pharmaceutical Society of Great Britain (North British Branch), Gordon's College, Aberdeen, at 8.15 P.M. Address by Sir William Glyn-Jones.

#### Friday, June 13.

Pharmaceutical Society of Great Britain (North British Branch), Mather's Hotel, Dundee, at 3 P.M. Address by Sir William Glyn-Jones.

NATIONAL ASSOCIATION OF WOMEN PHARMACISTS.—Miss Braithwaite, 17 Bloomsbury Square, London. W.C.1, asks us to announce that nominations for the National Council must be received not later than June 14.

## English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

#### War Regulations Altered.

**Fertilisers and Sulphuric Acid:** The Minister of Munitions has suspended the following Orders as from June 1: The Fertiliser Prices Order, April 30, 1918, controlling superphosphate, sulphate of ammonia and ground basic slag; the Compound Fertiliser Order, June 4, 1918; the Sulphuric Acid Order, May 29, 1917; the Sulphuric Acid (Amendment of Prices) Order, May 10, 1918; and the Sulphuric Acid (Amendment of Prices), No. 2 Order, November 8, 1918.

**Mica:** The Mica Order, April 15, 1918, has been suspended.

**Oats.**—The Oats (Scotland and Ireland) Restriction Order 1918, which prohibited the export of oats from Scotland or Ireland, except under licence, has been revoked.

#### Whitsuntide Holidays.

The following closings are announced, in addition to those given in THE CHEMIST & DRUGGIST, May 31, p. 45: Burge, Warren & Ridgley, Ltd., 91 & 92 Great Saffron Hill, E.C. 1, June 7 to June 11.

Hoffmann-La Roche Chemical Works, Ltd., The, 7 and 8 Idol Lane, E.C. 3, June 6 to June 10.

Potter & Clarke, Ltd., 60-64 Artillery Lane, E. 1, June 6 to June 10.

Reuter, Mr. R. J., 69 Carter Lane, E.C. 4, June 6 to June 10.

THE CHEMIST & DRUGGIST, 42 Cannon Street, E.C. 4, June 6 to June 10.

The Leeds Chamber of Trade recommend traders to close on June 9, 10 and 11.

#### Contracts.

The following Government contracts have been notified:

**MINISTRY OF MUNITIONS.**—*Candles.*—Asiatic Petroleum Co., Ltd. *Disinfectants.*—Burt, Boulton & Haywood, Ltd.; *Jeyes' Sanitary Compounds Co., Ltd.*; Killgerm Co., Ltd.; McDougall Bros., Ltd.; Newton, Chambers & Co., Ltd.; Phoenix Sanitary Co.; Quibell Bros., Ltd.; The "Sanitas" Co., Ltd.; R. Young & Co., Ltd.—*Medicines.*—Burroughs Wellcome & Co.; Lister Institute of Preventive Medicines.

**CROWN AGENTS FOR THE COLONIES.**—*Quinine.*—Howards & Sons, Ltd. *Turpentine.*—Dick & Parker, Ltd.

The Barnsley Education Committee have accepted the tender of Mr. H. B. Billington, chemist and druggist, Sheffield Road.

The Cranbrook Guardians have decided that the drugs shall in future be purchased by contract instead of being, as hitherto, included in the account of the medical officer.

#### Birmingham.

Three cases of spotted fever are reported from Walsall. Two of the patients have died.

The Council of the Royal Society of Arts have awarded the Society's Albert Medal for 1919 to Sir Oliver Lodge, in recognition of his work as a pioneer of wireless telegraphy.

Mr. Neville Chamberlain, M.P., who has served in a shop, "though not in this country," promises Birmingham shop assistants his support in their endeavour to get shorter hours.

#### Bradford.

Mr. William Jackson has been selected as clerk to the Bradford Insurance Committee at a salary of 350l. per annum. Mr. Jackson has had experience of Insurance Committee work at Barnsley and Leeds.

On account of ill-health, Professor W. M. Gardner, Principal of the Bradford Technical College, has resigned his position. Professor Gardner will be retained as a consultant in chemistry and dyeing at a salary of 200l. per annum.

C



**Liverpool.**

Several pharmacists are making up for their arrears of holidays.

The Whitley Council for the trade is a subject much debated here—in private.

Business continues to be brisk. As the Whitsun influx will, it is thought, reach a record, the prospect is hopeful.

Shaving-brushes are arriving in larger quantities than for some time past. Dental requisites in increasing numbers also make their appeal.

More and more attention is being paid here to window-dressing; the pharmacists who do not make window displays can be reckoned on the fingers of one hand.

The lethal chamber used by the Liverpool branch of the Royal Society for the Prevention of Cruelty to Animals is to be replaced by an apparatus for electrocution. It is stated that a considerable saving will be effected, the cost of the chloroform required by this institution during the past twelve months being 86*l*.

At a meeting of the Council of Liverpool University, on June 3, it was decided to offer the post of Vice-Chancellor (in succession to Sir Alfred Dale) to Colonel Adami, Professor of Bacteriology and Physiology in McGill University, Montreal. Colonel Adami has contributed important papers on pathological subjects to journals of medical societies, and during the war served in the Canadian Army Medical Corps.

**Sheffield.**

Mr. A. Knowles, Woodseats, has been appointed Secretary for Ucal for the Sheffield district.

Boots Pure Drug Co., Ltd., have an exhibit of fine chemicals and surgical requisites at the Disabled Soldiers' Exhibition in Cutlers' Hall.

It is understood that the Students' Association has declined the invitation of the Sheffield Pharmaceutical and Chemical Society to join them as associates.

Not many Sheffield assistants went as visitors to the Leeds meeting on May 29 (see p. 49). Messrs. Best and Billington attended on behalf of the Students' Association.

Mr. E. Wells Smith, who is one of the auditors of the local Society, has retired from the firm of Smith & Hill, chemists, Nether Edge Road, of which he has been senior partner for thirty years. Mr. Wells Smith intends to remain in Sheffield.

Mr. Wallace Heaton, Ph.C., managing director of Wallace Heaton, Ltd., Sheffield, and New Bond Street, London, W., intends to give up his Derbyshire home and take up his residence in the London district. He will retain his Sheffield business connection.

A House of Commons Committee has inserted a clause in the Sheffield Corporation Bill enabling the Cutlers' Company to register "Sheffield" and "Sheffield, England" as community trade-marks, so that they may have effect as such in any country the law of which recognises community marks as applied to manufactured goods. Instances have been cited in which German-made razors were sold to the Army of Occupation as of Sheffield make. The departure now proposed is obviously important, not only in itself, but also for its possible extension to other industries.

**Miscellaneous.**

**FIRE.**—An outbreak of fire occurred on May 30 in the basement of the pharmacy of Mr. D. T. Evans, chemist and druggist, Harbour Street, Ramsgate. The firemen found it necessary to use their smoke-helmets, and all business in the street was held up for a time.

**OFF-LICENCE APPLICATION.**—At Merthyr Tydfil, on June 2, the Licensing Justices declined to confirm the off-licence recently granted to Mr. John Roberts, chemist and druggist, Penyarden (*C. & D.*, March 15, p. 43), but consented to review their decision if an application is made for the sale of medicated wines only.

**"MINOR" LECTURES AT NEWCASTLE-ON-TYNE.**—Lectures for "Minor" students are being held in Rutherford College, Newcastle-on-Tyne, every Thursday evening dur-

ing June, July, and September. The lecturers are Messrs. R. McClumpha, Ph.C., F.C.S. (botany), and E. P. Weston, B.Sc., A.I.C. (theoretical chemistry and physics). The fee for each subject (thirteen lectures) is 1*l*. 11*s*. 6*d*.

**POISONING.**—At an inquest, held at Croydon, on June 3, on the body of Jane White (18), who had of late been grieving over the death of her father, evidence showed that she died from acute arsenical poisoning. The jury accepted circumstantial evidence that she took a dose of weed-killer used by her employer in his garden, and returned a verdict of "Suicide while of unsound mind."

**GOLF AND BENEVOLENCE.**—As the result of a golfing challenge, Messrs. E. A. Holloway and S. F. Body, Southend, played Messrs. C. A. Macdonald and W. M. Carmichael, London. The matches took place on May 1 and May 29, the Londoners winning after close contests. Each of the losers handed the sum of 1*l*. 1*s*. to the Pharmaceutical Society's Benevolent Fund per Mr. J. W. Royle (Ingram & Royle, Ltd.), who is authorised to issue a similar challenge on behalf of the Southenders to any other pair of golfing pharmacists.

**IN THE COURTS.**—At Marylebone Police Court, London, on May 30, E. A. Hamelberg, an Army Pay Clerk, charged on remand with stealing a cheque (*C. & D.*, May 31, p. 47), was sentenced to three months' hard labour.—At Bow Street Police Court, London, on June 3, Thomas Hearn, Gray's Inn Road, was ordered to pay fines and costs amounting to 25*l*. 3*s*. for causing a horse affected with parasitic mange to be driven on a public highway, and for failing to report to the authorities that the animal was suffering from the disease.—At West Ham Police Court, on June 3, H. Race, dock labourer, was fined 5*l*. (or a month's imprisonment) for stealing Resinol and chocolate.

**SOCIETY OF CHEMICAL INDUSTRY.**—The London Section held an informal meeting on June 2, at which some interesting apparatus was exhibited. The K-P clip, designed by Dr. G. A. Kcane and Mr. G. Patchin, is a practical device for securing the connection between rubber tubing and glass or metal tubing. There was an exhibit of laboratory apparatus by Baird & Tatlock (London), Ltd., and by Townson & Mercer, who also exhibited the "Metrogas" apparatus for the determination of nitrogen in coal-gas. Johnson & Matthey showed a fine range of the rare metals and their salts. An optical pyrometer and a humidity recorder were also demonstrated.

**INQUESTS.**—At an inquest, held at Mansfield, on May 30, on the body of a Mrs. Parkes, it was stated that a minute quantity of arsenic was found in a piece of the pudding that the deceased had eaten, and in the contents of the stomach there was a trace of oxalic acid. The daughter said she used a loose powder believed to be baking-powder. The jury returned an open verdict, expressing the opinion that the powder used was not baking-powder.—At a St. Pancras inquest on Desiré L. Turner, the widow of a second-lieutenant, it was stated that an empty tube which had contained morphine had been found in her room. The inquest was adjourned for an analysis to be made.

**EARLY CLOSING.**—The Home Secretary received a deputation at the Home Office last week from the Early Closing Association. The object of the deputation was to secure compulsory closing of shops at seven o'clock on four nights of the week, and at eight o'clock on Saturdays, with the usual weekly half-holiday and a maximum of forty-eight hours' weekly labour. Mr. Shortt assured the deputation of his entire sympathy with their movement. One thing the Defence of the Realm Act had done had been to convert many of the opponents of early closing into its friends. "The matter has been before the Home Affairs Committee of the Cabinet," Mr. Shortt added, "and we have decided that if Parliament will agree, the regulation at present in force shall be continued for at least a year."

**STREET TRADERS' HOURS.**—The Kennington and North Lambeth Chamber of Commerce have considered the Regulation of Employment Bill, which provides a forty-eight-hour week for employés, in relation to its effect upon the proprietor of a shop who runs the business,



with the help of his wife and family, and who "employs" nobody, and also in regard to the omission from the Bill of all reference to street traders. The Chamber decided to ask the Home Secretary to bring within the provisions of the Bill hawkers and street traders, and compel them to cease business at the hour specified for shopkeepers to close. The week-day closing, it was urged, should be seven o'clock, with the exception of Friday, when it should be eight o'clock, and Saturday nine o'clock, the weekly half-holiday to be retained. In the course of the discussion it was said there is a growing tendency in certain parts of South London to increase street trading in all trades, and thus avoid the Early Closing Order.

**BRITISH ASSOCIATION.**—The next meeting of the British Association is to be held at Bournemouth from September 9 to 13. It is announced that the incoming President of the Association, Sir Charles Parsons, K.C.B., will deal in his inaugural address with "Engineering and the War." Evening discourses will be delivered by Sir Arthur Evans (the present President) on "The Palace of Minos and the Prehistoric Civilisation of Crete," and by Mr. Sidney G. Brown on "The Gyroscopic Compass." The following Presidents of Sections have been appointed: A (mathematics and physics), Professor Andrew Gray; B (chemistry), Professor P. Phillips Bedson; C (geology), Dr. J. W. Evans; D (zoology), Dr. F. A. Dixey; E (geography), Professor L. W. Lyde; F (economics), Sir Hugh Bell, Bt.; G (engineering), Professor J. E. Petavel; H (anthropology), Professor A. Keith; I (physiology), Professor D. Noel Paton; K (botany), Sir Daniel Morris, K.C.M.G.; L (education), Sir Napier Shaw; M (agriculture), Professor W. Somerville.

**SURPLUS GOVERNMENT STORES.**—Under the title of "Surplus" the first catalogue of goods to be offered by the Surplus Government Property Disposal Board has been issued by the Ministry of Munitions, and additional numbers will be issued on the 1st and 15th of every month. In the chemicals and explosives section a large number of products are offered, but the particulars in regard to the quantity available are vague and indefinite. Of the following the catalogue says there is a "considerable quantity available": Acetic acid, refined acetone, ammonium perchlorate, barium nitrate, solid calcium nitrate, calcium silicide, hardwood charcoal, chloride of lime, chloro-sulphonic acid, chlorpicrin, clarifying powder, empty liquid chlorine cylinders, dimethylaniline, dogwood ethyl-ether, ferrous sulphate (98.9 per cent.), iron alum (11.6 per cent.), Algerian kieselguhr, methyl acetate, methyl acetone, methyl alcohol, mineral jelly, nitrates, mixed potash and soda, picric acid (low grade), potash perchlorate, Chilean refined nitrate, sodium silicate, sodium sulphate, imported sulphur, sulphur monochloride, T.N.T. residues, &c. Many other chemicals are available in "fair quantities," whatever this may mean. Among the pharmaceutical goods we notice a few 60-lb. jars of capsaicin extract and about 2½ tons of milk sugar. All inquiries in respect to these materials are to be addressed to the Controller, Explosives and Chemicals Section Disposal Board, Storey's Gate, Westminster, S.W. 1. The Medical Stores Section, to which we referred in last week's issue (p. 47), has a lengthy list of surgical and dental instruments and appliances for sale on favourable terms to officers of R.A.M.C. and dental surgeons.

**MAKING THE MOST OF IT.**—A tradesman in a Midland city recently visited by the King had a shop on the line of route of the Royal procession. His customers were subsequently informed by placard that all goods offered for sale had been "personally passed by his Majesty the King!"

**GUIDES TO SMALLHOLDERS.**—The Board of Agriculture and Fisheries, 3 St. James's Square, London, S.W. 1, are issuing (2d. each, post free), a series of guides to smallholders in the form of small booklets. The following have already been published: 1. "Pig Keeping." 2. "Dairy Farming." 3. "Co-operation for Small Producers." 4. "The Smallholder's Horse." 5. "Farm Crops." 6. "Soils and Manures." 7. "Fruit Growing on Small Holdings in England and Wales." 8. "The Dairy Cow and Milk Selling." 9. "Potato Growing on Small Holdings." 10. "Market Garden Crops on Small Holdings." 11. "Poultry Keeping for Smallholders."

## Irish News.

### The Pharmaceutical Society of Ireland.

The following are the latest dates for lodging applications for the July examinations: Thursday, June 19, for the Preliminary examination; Tuesday, June 24, for the Registered Druggist examination; Wednesday, June 25, for the Pharmaceutical Licence examination; Monday, June 30, for the Pharmaceutical Assistant examination.

### Brevities.

In Limerick chemists are displaying notices in their windows offering 3d. for each medicine bottle returned.

Mr. Percy R. W. Shinner, Ph.C., late of Grattan & Co., Ltd., will shortly join the staff of Mr. Thos. Johnston, Ph.C., Lisburn.

The business of the late Sir William Baxter (C. & D., May 24, p. 19), has been disposed of, privately, to Messrs. R. F. McCartney, J.P., Ph.C., J. & W. McLeese, and J. A. W. Gilmour, who will carry it on under the title of W. J. Baxter & Co. Mr. McCartney, who is a well-known local pharmacist, is Chairman of the Coleraine Urban Council.

### Belfast.

J. & J. Haslett, Ltd., chemists, 18 and 20 North Street, Belfast, are having extensive alterations carried out at their premises.

Mr. John K. Lyons, Ph.C., has taken over Parke's Drug Store, 308 Crumlin Road, Belfast, which will now be styled "The Ardoyne Pharmacy."

At the election for Poor-Law Guardian for the Duncairn Ward, Belfast, on May 29, Mr. Allen McIntosh McCurdy, Ph.C., 46 York Street, Belfast, was returned at the head of the poll.

At the annual show of the Royal Ulster Agricultural Association held recently at Belfast, Mr. Samuel Gibson, J.P., King Street, Belfast, an Ex-President of the Chemists' and Druggists' Society of Ireland, and an ardent stock breeder, was a successful exhibitor.

An agreement has been reached between the Ulster Drug Trade Employers' Federation and the Belfast Chemists' Branch of the National Amalgamated Union of Shop Assistants, Warehousemen, and Clerks, concerning remuneration and conditions of employment. Copies of the agreement (which will be published shortly) are being prepared for signature.

### Cork.

The Cork Charitable South Infirmary Committee is advertising for tenders for medicine and surgical appliances.

Medicine bottles are still unobtainable in Cork, medicines being given to customers in all kinds of bottles. A Cork chemist who ordered 1500 worth of 6, 8, and 10 oz. bottles three months ago has not yet received even part of his consignment.

## Scottish News.

### Brevities.

The demand for fly-papers is in full swing.

Mr. Raffan, chemist and druggist, Huntly, has opened a drug-store at the local auction mart.

The Amalgamated Society of Pharmacists, Drug and Chemical Workers continues to enrol large numbers of members in Scotland.

Mr. T. A. Palfrey, chemist and druggist, Alva, has purchased the business of the late Mr. William Robertson, High Street, Alloa.

Mr. A. G. Adamson, chemist and druggist, Kirkcaldy, sustained a fall a few days ago (while reaching to a high shelf), resulting in fractured ribs.

Mr. William Smart, chemist and druggist, Buckhaven, has been appointed Convener of the Supplies Committee for the County of Fife Education Authority.



A 9s. Shen-el-Nessim vanished recently from the counter of a Scottish chemist. He is not perturbed, however, as the carton contained nothing but sand.

On observation one is struck with the seasonable displays in Scottish pharmacies. Evidently the *C. & D. Chemist's Calendar* is being made the guide.

Soaps, bathing-caps, sponges, and allied articles have recently been in exceptional demand. Photographic sundries also promise to have a good sale this year.

A firm of boot-makers has bought the stock and fittings of the shop at 4 Wellgate, Dundee, formerly occupied by the late Mr. J. B. Beattie (*C. & D.*, May 24, p. 50), and is selling them by auction.

An official booklet concerning the British Industries Fair, which is to be held in the Kelvin Hall, Glasgow, from September 8 to September 19, is now available. Among the goods mentioned in the classification of exhibits are chemicals ("light and heavy"), cardboard boxes, "domestic chemical products" (including disinfectants), and concentrated foods.

The Scottish Pharmaceutical Federation has issued membership-application forms to all chemists in business. Bodies corporate will have representation. It is hoped that the Federation will be in a position to nominate representatives on any industrial council that may be formed, but, according to a well-informed correspondent, it is rumoured that dissension grows in the ranks.

#### Edinburgh.

There is still no sign of the introduction of 7 p.m. closing.

Police inquiries are being made regarding recent sales of poison, on account (it is said) of the wilful poisoning of animals by persons unknown.

## Colonial and Foreign News.

**GERMANY'S PROSPECTS.**—The lack of alcohol for technical purposes has had a very adverse effect on the manufacture of chemical and pharmaceutical products in Germany, reports the "*Zeitschrift für angewandte Chemie*." Formic acid, for instance, is no longer manufactured. Owing to the enormous increase in the cost of raw materials, when procurable, the prices for certain articles have reached fantastic figures, tannic acid being a case in point, as manufacturers have had to use the very inferior German galls. Nevertheless, the writer of the article is sanguine regarding the future of German exports, as prices for German products are in every instance considerably lower than those ruling in other countries. He points out that benzoic acid, 55s. to 60s. a kilo. in England, in Germany is 18m.; potassium permanganate costs in Germany 1.35m. a kilo., and in other countries 60m. A speedy renewal of business relations with England and with Russia is to be expected.

**CO-OPERATIVE MOVEMENT IN SAXONY.**—The Co-operative Union of Socialist Pharmacists has submitted to the Saxon Minister of Economy a proposal for the socialisation of pharmacies. All existing pharmacies are recommended for incorporation in the Union, the present owners to receive compensation based on actual value. The number of pharmacies may be increased or reduced, according to local requirements. Senior pharmacists will act as managers, the salary being 400m. (nominally 20l.) a month, with an extra 100m. (nominally 5l.) for managerial duties. The pharmacists will become officials, and in each district will elect a Committee to act as supervising authority. The doctor's right of inspecting pharmacies will be abolished, and the manufacture of specialities reduced. In each district a central laboratory and warehouse is to distribute supplies to pharmacists, and a laboratory for urine, blood, sputum, and food analyses will be attached to the central laboratory.

**BELGIAN GRATITUDE.**—At the general meeting of the Belgian "Nationale Pharmaceutique," held in Brussels on May 25, one of the first subjects on the minutes was to express the gratitude of Belgian pharmacists for the generosity shown them by their British and French colleagues, seizing this, the first occasion, to place their thanks on record. An address will be prepared and sent to the Pharmaceutical Society, and to the Association Générale des Syndicats Pharmaceutiques de France. One of the directors, M. R.

Patton, who is well known to many English pharmacists, proposed that those Belgian pharmacists who had not suffered any damage during the war should join in raising a subscription, to be presented to the Benevolent Fund of the Pharmaceutical Society. The suggestion was received with loud applause, and the hope was expressed that all Belgian pharmacists in a position to contribute should by this means give expression to their gratitude to the generous British donors, who from the beginning of the war assisted by their numerous subscriptions the unfortunate Belgian pharmacists and doctors who were victims of the war. It was also decided to participate in the subscription now being raised by French pharmacists, at the initiative of Pharmacist-Major E. Prothière, to replace the statue to Jean Parmentier, at Montdidier, removed by the Germans for its copper. It was decided to ask all Belgian pharmacists to contribute to this collection.

**PATRIOTISM AND DRUGS.**—In a recent issue of one of Italy's leading medical journals ("*Gazzetta degli Ospedali e delle Cliniche*"), a well-known manufacturer of pharmaceutical products addresses the following exhortation to his medical compatriots:

To emancipate ourselves from foreign products, Italian medical men should recommend and prescribe only Italian preparations.

There is no reason to make a distinction between German, French, or English products—whatever it may be once it is not an Italian product it may with certainty be regarded as a profiteer on the Italian market.

It is particularly French firms that dominate and bleed the pockets of Italian purchasers by their innumerable specialities. Hundreds of thousands of lire are annually extorted from Italy, sent out of the country to enrich France—and yet French specialities have nothing "special" about them, except their enormously high price; while, on the other hand, with a "benevolent" reciprocity, France prohibits the importation of Italian specialities.

It is now high time that Italy emancipates herself from all foreign profiteers. It is the foremost duty of the doctors to prescribe, conscious of the fact that they are Italians, and to repudiate all that is foreign.

To this end, we place our chemical and pharmaceutical factory, founded thirty years ago, at the entire disposal of the doctors. Directed by expert chemists, and provided with modern machinery, it is capable of manufacturing all specialities which medical men may wish to substitute for foreign ones.

Already a large number of doctors are our adherents, but we wish that all Italian doctors, instead of prescribing foreign specialities, would cause preparations to be made up according to their own prescriptions or formulas, with the double advantage of being sure of the therapeutic action, and of saving expense to their patients.

**PROPOSED RESEARCH INSTITUTE.**—In November 1918 the Dutch Association for the Promotion of Medicine appointed a Commission to consider the advisability and means of establishing an institute for carrying out the pharmacological and therapeutic investigations of drugs and medicines. This Commission, which consisted of seven professors and doctors and three pharmacists (Professor L. van Itallie, Dr. J. S. Meulenhoff, and Professor P. van der Wielen), has presented its report to the Minister of Labour (Health Department), urging the creation of the institute in question. The report begins by pointing out the dilemma in which the medical man is placed by the daily introduction of new remedies. Further, a number of drugs employed in medicine (digitalis, strophanthus, ergot, etc.) vary in potency, and can only be standardised by physiological tests. The action of opium, too, is by no means entirely due to the morphine content, as other alkaloids present produce their effects. Should the new edition of the Pharmacopœia include physiological tests, the pharmacist cannot be expected to undertake these assays. Therefore, in the opinion of the Commission, the duties and scope of the institute would be to investigate the composition, purity, and pharmacological action of various drugs, patent remedies, invalid foods, etc., and also to supply reliable abstracts from current literature to doctors. This work could be carried out in the existing laboratories, and would be entrusted to a Committee consisting of medical men, pharmacologists, and pharmacists, who would direct the researches of specially trained men. The investigators would publish, periodically, their results, and this information would be supplied to all medical and pharmaceutical journals. The Commission estimates the annual charge for this institute at 45,000 florins, and believes it to be a very small amount, in view of the sums which could be saved by replacing many expensive foreign remedies with reliable drugs, for patent medicines to the value of many hundred thousand florins are now imported annually.



## Organising the Drug-trade.

### Meeting at Blackburn.

AT A RECENT meeting of the apprentices and assistants of Blackburn pharmacists, four delegates were appointed to attend the meeting in Manchester, on May 28, addressed by Sir William Glyn-Jones on the proposed establishment of an Industrial Council for pharmacy. They gave their report, which was adopted, at a later meeting held on May 30.

### Newcastle-on-Tyne Meeting.

A MEETING of pharmacists and assistants was held at the Church Institute, Newcastle-on-Tyne, on May 29, when an appeal on behalf of *Trade Unionism* was made by Mr. George Beardsworth (Pharmacists' and Assistants' Section of the National Warehouse and General Workers' Union). In view of the proposal that an Industrial Council for the drug and chemical trade be formed, the speaker urged the necessity of organisation. He stated also that pharmacists and assistants have not been getting a proportionate increase in comparison with the advances made in the wholesale trade.

### Branch Association in Nottingham.

A BRANCH of the National Association of Chemists' Assistants was formed in Nottingham on June 2, when a large number of assistants joined. There is every prospect of the membership numbering 100 within a week. Mr. D. N. Fullerton (Manchester), Organising Secretary, addressed the meeting. The following officers were elected: *President*, Mr. A. Ringer, Ph.C.; *Vice-President*, Mr. J. O. Teale, Ph.C.; *Secretaries*, Messrs. R. P. Crecraft, chemist and druggist, and B. A. Stevenson; *Treasurer*, Mr. C. E. Reynolds, chemist and druggist. Delegates from Derby were present. An active campaign is being carried on. Mr. Reynolds was elected to represent the branch at a forthcoming conference in Manchester.

### Glasgow Wholesale Employés Meet.

A MEETING of the employés of the wholesale drug-houses in Glasgow was held, under the auspices of the Amalgamated Society of Pharmacists, Drug and Chemical Workers (Glasgow and West of Scotland Branch), on May 29. Mr. Hutchison (President) pointed out that all drug workers should be organised if they are to maintain and improve their position. Retail workers had within the last few weeks formed a branch of this union, but the workers in the wholesale were still unorganised. The advantages of this union were also pointed out, and he hoped for the establishment of a wholesale section. The meeting unanimously resolved to form a branch, and after varied questions had been answered those present were thanked for their decision.

### Assistants' Association for the Midlands.

IN FULFILMENT of a promise given to Sir William Glyn-Jones at the recent meeting in Birmingham (*C. & D.*, May 17, p. 52), the chemists' employés of Birmingham and the Midlands have formed an association. This was decided upon at a meeting, held on May 28 at the Chamber of Commerce, at which Mr. J. M. Johnson presided. Upwards of eighty members were enrolled. Mr. G. Moss was elected *President*, Messrs. Johnson and Burns *Vice-Presidents*, Mr. Goodman *Treasurer*, and Mr. Mills *Secretary*. A Committee was appointed, comprising three qualified men, three unqualified, and one apprentice, with power to co-opt additional members from outlying districts. After hearing an address by Mr. Fullerton (National Association of Chemists' Assistants), it was decided to affiliate with that organisation.

### Activity at Bristol.

AT THE INVITATION of the Bristol Pharmacists' Association a large meeting of assistants was held in Bristol on June 2 for the purpose of promoting organisation among the employés. No employers were present, and Mr. Sharp (Boots, Ltd.) was chosen to occupy the chair. The Amalgamated Society of Pharmacists, Drug and Chemical Workers sent a representative to explain the aims and advantages of that union; while, in the absence of an appointed representative, Mr. Guthrie (Boots, Ltd.) undertook a like duty on behalf of the National Association of Chemists' Assistants. After these gentlemen had spoken a member of the audience addressed the meeting on behalf of the Dockers' Union, explaining that this union was quite prepared to establish a special branch for retail chemists, as had already been done on behalf of the wholesale trade. After a lengthy discussion a resolution was unanimously carried that all should join some union at once. An overwhelming majority

writes us that there is a dearth of wholesale druggists' price-lists in the country, and would like wholesalers to recommence sending them. "When buying," he says, "it is necessary to have a drug-list of some sort, as we have no means of guidance other than what appears in the *C. & D.*"

## South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

PRICE-LISTS WANTED.—An Orange Free State subscriber writes us that there is a dearth of wholesale druggists' price-lists in the country, and would like wholesalers to recommence sending them. "When buying," he says, "it is necessary to have a drug-list of some sort, as we have no means of guidance other than what appears in the *C. & D.*"

SCIENTIFIC RESEARCH.—The Research Grant Board which has been established by the Union Government for the encouragement of scientific research has recently announced its scheme for awarding research scholarships and making grants towards the expenses of scientific research. The scholarships will vary in value from 80*l.* to 250*l.* per annum for one to two years, and may be awarded for a further period.

## Colonial Pharmacy Board.

At a general meeting of the Board, held recently, the following resolution was passed:

"This Board resolves that any registered chemist and druggist who allows his licence to practise as such to be used for the purpose of enabling an unregistered person or persons to carry on the business of a chemist and druggist, or of enabling any company to carry on such business unless the *bona-fide* managing director and/or general manager of that company is a registered chemist; or who places an unregistered person in charge of his own business, shall render himself liable to the penalties laid down in Section 13 of the Medical and Pharmacy Act Amendment Act of 1899."

In connection with this matter each chemist and druggist in the Cape Province has been circularised and his assistance asked in giving effect to the resolution. Section 13 reads as follows:

"If any person licensed or certified under the said Act shall, after due inquiry, at which such person shall have an opportunity of being heard, be judged by the Council or Board, as the case may be, to have been guilty of improper or unprofessional conduct, the Council or Board, as the case may be, may reprimand or caution, in writing, under the hand of the President or Chairman, as the case may be, such person, and if such improper or unprofessional conduct be persisted in by such person after due receipt of such reprimand or caution, or if the Council or Board, as the case may be, shall judge such person after such inquiry to have been guilty of infamous or disgraceful conduct in any professional or other respect, the Governor may, if he see fit, direct that the name of such person be erased from the Register, and that his licence be withdrawn and cancelled, and the Council or Board, as the case may be, shall make such inquiry upon *bona-fide* information or complaint laid by any member of the public or by the Minister in control of the administration of the law protecting public health; provided that the name of such person may be restored thereafter to the Register on the request of the Council or Board, as the case may be, and provided that no person whose name shall be erased from the Register under this and the last preceding section shall be deemed, merely by reason that such person shall remain in possession of a licence or certificate, to be qualified, licensed, or certified to practise the profession or carry on the calling to which such licence or certificate relates."

MUSTARD GAS IN THE SEA.—The "Daily Telegraph" states that Swansea and Gower coast residents are up in arms over the presence of poisonous mustard gas in drums which are lying about on the coast. Two boys who went to bathe at Oxwich came home in great pain, and have been under medical treatment ever since. The drums are American marked, and are stated to have come from a transport. The Board of Trade have been pressed to take action in removing or safely burying drums, but they place the responsibility upon the American naval authorities. Meanwhile the drums continue to remain round the coast, a danger by reason of the gases emitted and the liability to burns through handling. Some are being washed out to sea.



## Pharmacy in the French Army.

DURING the war the writer has served in close touch with the French Army, in France, Italy, and Russia, and has thus been able to make a study of its Medical Service. He has been impressed by the fact that one of the most striking differences between the French Medical Service and our own is the high position accorded to pharmacy. Whereas in the British Army the dispensing of medicines is performed by sergeants, corporals, and even privates—who may or may not possess pharmaceutical diplomas—and the charge of advanced and base depôts of medical stores is entrusted to quartermasters, in the French Service these duties are in the hands of a special body of qualified pharmaceutical chemists who hold the same rank as medical officers. In addition to dispensing medicines and to being entrusted with the care and disposal of all stocks of drugs, dressings, and appliances, other important functions are performed by French pharmacist officers, viz.:

1. They act as analytical chemists and have charge of all laboratories, including those established in each division for the analysis of water, foods, etc.
2. They act as divisional gas defence officers, and have charge of all reserve supplies of *masques* and other defences against gas.
3. They have charge of all supplies of disinfectants, a duty which in the British Army is in the hands of the Royal Army Service Corps.
4. They act as staff officers and technical advisers to Directors of Medical Services of French armies.

In order to see how the pharmacist officer fits into the French military machine, a brief sketch of the organisation of the French Medical Service, or *Service de Santé*, will be necessary.

### THE SERVICE DE SANTÉ.

It consists of:

(A) Officers: (i) *Médecins* (Medical Officers); (ii) *Pharmaciens* (Pharmacists); (iii) *Officiers d'Administration* (Medical Quartermasters).

(B) *Personnel*: (i) *Infirmiers*; (ii) *Brancardiers*, who are the rank and file of the Medical Service.

The grades of *personnel* are:

*Sous Aides Majors, Médecins Auxiliaires* (Medical Students), *Pharmaciens Auxiliaires* (Pharmaceutical Students), and *Dentistes Militaires*.

*Sous Officiers, Adjutants-Chefs, Adjutants, Sergents, and Caporaux* (as in the French infantry).

The grades in the French Medical Service are:

*Médecin Inspecteur-Général*, ranking as Major-General; *Médecin Inspecteur*, ranking as Major-General.

*Médecin Principal de 1re Classe*, ranking as Colonel; *Médecin Principal de 2me Classe*, ranking as Lieutenant-Colonel.

*Médecin Major de 1re Classe*, ranking as Major; *Médecin Major de 2me Classe*, ranking as Captain; *Médecin Aide Major de 1re Classe*, ranking as Lieutenant; *Médecin Aide Major de 2me Classe*, ranking as Second-Lieutenant.

*Pharmacien Inspecteur*, ranking as Major-General; *Pharmacien Principal de 1re Classe*, ranking as Colonel; *Pharmacien Principal de 2me Classe*, ranking as Lieutenant-Colonel.

*Pharmacien Major de 1re Classe*, ranking as Major; *Pharmacien Major de 2me Classe*, ranking as Captain; *Pharmacien Aide-Major de 1re Classe*, ranking as Lieutenant; *Pharmacien Aide-Major de 2me Classe*, ranking as Second-Lieutenant.

*Officiers d'Administration* are graded as first, second, and third class, and rank as Captain, Lieutenant, and Second-Lieutenant. A few reach the grade of *Officier d'Administration Principal*, with the rank of Major.

In regard to the rank of Major-General mentioned above, it should be noted that in the British Army there are four grades of Generals: General, Lieutenant-General, Major-General, and Brigadier-General. The French have only two grades, viz.: *Général de Division*, corresponding to our Major-General, and *Général de Brigade*, corresponding to our Brigadier.

I have described the *Officiers d'Administration* as Medical Quartermasters, but they are much more. They correspond more closely to the Captains of Orderlies in the early days of the British Medical Service, as they carry out most of the executive work of a French military hospital.

The French medical and pharmacist officers control and organise the professional work of the hospital, but the purely military duties of command and non-technical administration are in the hands of this special body of purely administrative *non-medical* officers. The exclusion of French Army surgeons and pharmacists

from the exercise of purely military functions results in a military inferiority to officers of the same rank in the combatant Services. A French friend put the position very concisely as follows: "Un médecin major ou un pharmacien major de deuxième classe n'est pas un capitaine. Un médecin ou pharmacien major de première classe n'est pas un commandant; il est un peu moins. L'officier combattant, à toujours, avec égalité de galons, la présence sur l'officier des services (Santé, Intendance, Vétérinaire, etc.)."

The *Médecins* and *Pharmaciens Auxiliaires* have the rank of *Adjudant*, which corresponds roughly to our Warrant-Officer grade. They are junior medical and pharmaceutical students. The *Médecins Auxiliaires* are chiefly employed as regimental medical officers, but the *Pharmaciens Auxiliaires* are employed in a great variety of ways.

We have nothing at all resembling the "*Médecin Auxiliaire*" or "*Pharmacien Auxiliaire*" in the British Medical Service, as the "*Apothecaries*," or as they are now styled, "*Assistant Surgeons*," employed with the Army in India are Europeans or Eurasians who have been through a complete medical curriculum in a Government Medical College and have been granted diplomas as general medical practitioners in British India. They act as dispensers in military-hospitals in India, but this is a minor part of their duties.

The field uniform of the French Medical Service is the same as that of other officers. The *Médecins* wear a gorget patch of cherry-coloured velvet and the *Pharmaciens* a similar patch of green velvet. Both wear the snake of Aesculapius (*le caducée*) enclosed in an oval laurel wreath embroidered in gold on the velvet. "*Médecins Auxiliaires*" and "*Pharmaciens Auxiliaires*" wear the same gorget patch as their officers.

The "*Officiers d'Administration*" wear a ten-pointed golden star on a red velvet gorget patch.

Military dentists, as will be seen later, are not officers. They wear the uniform of *Adjudants* in the *Service de Santé*, with the snake and laurel-leaf accompanied by the letter "D" embroidered in silver on the collar. The badges of rank of both *Médecins* and *Pharmaciens* are of gold both on the sleeve and *képi*. Dentists wear no gold braid on their caps.

The rank and file of the French Medical Service is divided into two well-defined classes, *Infirmiers* or hospital orderlies and *Brancardiers* or stretcher-bearers. They are all elderly men drafted from infantry battalions. They continue to wear their regimental numbers—there are no regimental badges in the French Army—with the exception of specially trained men who always function as male nurses, assistants in the pharmacies, and laboratory attendants. These men are distinguished by wearing on their collar the snake and rod of Aesculapius in a laurel-wreath embroidered in white cotton on a dull red background.

The French Medical Service in the field is divided into two zones: 1. *Service de Santé de l'avant*. 2. *Service de Santé de l'arrière*.

### SERVICE DE SANTÉ DE L'AVANT.

The direction of the Medical Service with the Field Army does not differ materially from the British except that, what corresponds to the Director of Medical Services of an army has a *Pharmacien Principal* (ranking as a Colonel) serving on his staff. This pharmacist officer performs all the functions of a medical staff officer, such as carrying out inspections on behalf of his chief. So actively is he employed in this direction that the *Pharmacien Principal* of the particular French Army to which the writer belonged, during the second battle of the Marne, was actually captured by the Germans whilst proceeding with instructions to a hospital of evacuation during that very rapid retreat. *Pharmaciens* do not serve on the staff of lower formations than armies, but they play an important part in the *personnel* of the medical units which collect the wounded on the battlefield and in the field hospitals.

To understand their employment it is necessary to sketch the medical organisations of a French division as the division is the fighting formation in direct contact with the enemy. With a British division there are three field ambulances and a doctor with each battalion, but the organisation in the French Army is more complicated, as there are the following formations:—

- (1) The Regimental Medical Service.
- (2) The G.B.D., or *Groupe des Brancardiers Divisionnaires*—i.e. Divisional Bearer Company.
- (3) The S.S.A., or *Section Sanitaire Automobile*—i.e. the Divisional Motor Ambulance Convoy.
- (4) Ambulances or Field Hospitals (usually two).

In regard to the Regimental Medical Service, the first thing which the student of the organisation of Continental military systems has to understand is that a "Regiment"



corresponds to what we call a "Brigade" in the British Service. Prior to the introduction of the Territorial system in our Army, what are now known as "Battalions" were distinguished by numbers and styled "Regiments." Now, of course, the regiment embraces at least two Regular battalions, sometimes one or two special reserve battalions, several Territorial battalions, and an unlimited number of "Service" battalions. In our Army, four battalions, usually from four different regiments, are grouped together during the war as a brigade. Each infantry regiment in the French Army has three battalions, which never change in peace or war. In medical charge of the regiment is the *Médecin Chef du Régiment*, who has, as his staff officer, a *Pharmacien du Régiment*. Each battalion has a medical officer and a medical subordinate—i.e. a *Médecin Auxiliaire* or junior medical student. These battalion medical officers serve under the orders of the *Médecin Chef du Régiment* and not directly under the A.D.M.S. of the division as in our Army. They organise battalion aid-posts, exactly similar to the formations wrongly called regimental aid-posts in our Army, but from these they send their wounded and sick, not to a field ambulance advanced dressing-station as in the British organisation, but to a real regimental aid-post (*Poste de Secours régimentaire*), where they are dealt with by the *Médecin du Régiment* aided by the regimental pharmaceutical officer. Like the regimental *Médecin Chef* the *Pharmacien du Régiment* is on the staff of the *Colonel Commandant*, and is part and parcel of the regiment. He can only be changed by supreme Army authority.

The *Médecin Divisionnaire*, who corresponds to our Assistant Director of Medical Services, exercises technical supervision, but has no military command over the regimental pharmacist officers of his division. It will be seen that the French regiment is a complete medical and pharmaceutical organisation in itself.

The next fighting formation in which the pharmacist officer is found in the *Groupe des Brancardiers Divisionnaire*, or divisional bearer company. A "Groupe" consists of the following personnel:

One *Médecin Chef*, who is a *Médecin Major*.

Two *Médecins Aide-Majors*.

One *Pharmacien*.

One *Officier d'Administration*.

One *Médecin Auxiliaire*.

Three *Pharmaciens Auxiliaires*, and

108 Bearers.

It will be seen that the unit has as many pharmacists as it has doctors. The "Groupe" is universally spoken of as the "G. B. D." The French are as fond of alphabetical titles for military formations as we are.

The system of working this unit is as follows:

I. *Poste de Secours*.—Detachments are, during battle, attached to the Battalion Aid Posts (*Postes de Secours de Bataillon*).

II. *Relais de G.B.D.*—Within reasonable distance of the Aid Posts are Relay Posts of Bearers.

III. *Poste de Recueil*.—This corresponds roughly with our advanced dressing-station, and is the point at which motor- and horsed-ambulance vehicles and wheeled stretchers are kept.

IV. *Poste Centrale G.B.D.*—This is the Headquarters of the G.B.D., and has the following:

1. *Magasin de Matériel Anti-gaz*.

2. *Laboratoire de Toxicologie*.

3. *Dépôt de Désinfectants*.

These three formations are entirely in the hands of the pharmacists, who may in addition be stationed at any of the three previous points.

The next field medical unit with which the pharmacist is found is the *Ambulance*, and in the French Army this term is employed to describe a field hospital, not a mixture of bearer company and field ambulance as in the British Army.

The personnel of an ambulance consists of eight officers (five *Médecins*, one *Pharmacien*, two *Officiers d'Administration*) and thirty-two other ranks.

The strength of the rank and file roughly corresponds to one and a half "tent sub-divisions" of a British field ambulance. The number of ambulances attached to a division varies according to its needs. There are usually two. One is the *Ambulance de Triage*, which receives all wounded and sick. It distributes cases to various centres, and keeps patients not fit to travel and lightly wounded who will quickly recover. Except for the fact that it is a hospital and keeps cases, it corresponds to our divisional dressing-station. The other ambulance is a small hospital, and takes sick, lightly wounded, and slight skin cases. There is accommodation for one hundred and fifty patients, and

the period of their stay is usually limited to three weeks. It is obvious that, in both these varieties of field hospital, there is plenty of scope for the pharmacist, and one of the most important features of these formations is the pharmacy, which is invariably well equipped and stocked. In addition to these ambulances, each French division organises what are called *Infirmaries*, which have no analogue in the British Service. They provide for the treatment of very slight cases quite close to the firing-line. The patients are not shown as admissions to any medical formation. The establishment is the *Médecin Chef* of a regiment in reserve with his *Pharmacien du Régiment* and battalion medical establishments.

Here, again, the presence of a trained pharmaceutical officer makes itself felt by a very high standard of pharmaceutical service to the sick and wounded under treatment.

Behind the zone of the armies are the *Etapes*, which correspond roughly to our lines of communications. The *Etapes* include various hospitals established for medical and surgical work and for the various specialities of medicine and surgery. Each has its *Pharmacien* and a complete pharmaceutical as well as a medical staff and organisation.

#### SERVICE DE SANTÉ DE L'ARRIÈRE.

Behind the *Etapes* we find the hospitals of evacuation, ambulance trains, and railway rest-stations, which convey the wounded and sick to the medical organisation of the "Interior." The home territory, or "Interior," is the portion of France well outside the zone of the armies. Here, hospitals for the continuous treatment of wounds and sickness are established on similar lines to our stationary and general hospitals. There are twenty *Régions* corresponding to the twenty Territorial Corps of the French Army. Each *Région* has a *Directeur de Service de Santé de la Région*, who has a *Pharmacien Principal* on his staff. Throughout each region the pharmacist officers, their pharmacies, laboratories, and stores are a special branch of the Medical Service supervised by an administrative pharmaceutical officer, who is expert adviser to the Medical Director.

#### DENTISTRY IN THE FRENCH ARMY.

An article dealing with the pharmaceutical profession would not be complete without some further reference to the sister profession of dentistry. In marked contrast to the high position accorded to pharmacy is the comparatively low one held by dentists in the French Army. The pharmacist is the equal of his medical brother-in-arms in all respects, but the dentist is not an officer at all, but a *Sous-officier* like the *Médecins* and *Pharmaciens Auxiliaires*. The dentists have low rank in the French Army, but there are plenty of them. In the British Army dentists are few and far between. There is only one to each casualty clearing station, and only one or two with the stationary and general hospitals. In the French Army each division has three, each corps has an additional one, and there is a liberal supply to the hospitals on the lines of communication and at the base.

In the foregoing sketch the high position held by the pharmaceutical profession in the French Service has been established. Pharmacy has been described as the hand-maiden of medicine. In the British Army she is little more than a drudge, but in the Army of the great French Republic she is accepted as a sister, enjoying equal rights and privileges.

M.D., L.P.S.I. (20/3.)

SCIENCE LOSES A BATTLE.—The Senate of Cambridge University has decided, by 119 votes to 50, against making science compulsory in "Little-go."

CHEMISTS AND ENGINEERS.—In a paper read on May 20 before the Institution of Petroleum Technologists, Messrs. M. Perkin and T. C. Palmer dealt with the collaboration of chemists and engineers in the distillation of shale. They recalled that in the early days of shale retorting or distilling economy was too little considered. The gases which could not be condensed and also the ammoniacal liquors were let run to waste. But, with the competition brought by the American natural oils, changes had to be made if the industry was not to go under. The gases, now discharged at the bottom instead of at the top of the retort, were condensed by heating. The spent shale was also made to drop out of the bottom from a combustion chamber, where the carbon was gasified by means of steam, and so contributed most of the heat for the distilling process. And, similarly, the ammonia was largely recovered. The importance of sulphate of ammonia as a fertiliser began to be realised, and its production could be said to have saved the Scottish shale industry. Here was a good instance of the brotherhood of chemist and engineer, of the combination of science and practice. "Life is too short," concluded the paper, "for the chemist to be his own engineer or for the engineer to be his own chemist."



## Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

### The Drug Fund.

A medical view of the reforms desirable in the administration of the Drug Fund under the National Insurance Acts is given in the Report of the Insurance Acts Committee of the British Medical Association. This Committee, constituted under the by-laws of the British Medical Association, has been appointed annually, for several years, by conferences of the Local Medical and Panel Committees to represent them in negotiations with the Government respecting administration of the National Insurance Acts. The Report, from which the following sections are taken, is to be discussed by medical men throughout the country:

#### THE DRUG FUND.

42. Under present arrangements, that portion of the Medical Benefit Fund of an area which is distributed to practitioners (the "Practitioners Fund") is complicated by being, on the one hand, incomplete, so that it has to be supplemented by a sum for domiciliary attendance on insured persons in respect of sanatorium benefit; and, on the other hand, associated with, and to some degree dependent upon, the fund for the provision of drugs and appliances (the "Drug Fund"). The Committee is very strongly of opinion that both these arrangements should be abandoned, and that the "Practitioners Fund" should (1) contain the proper sums due to practitioners for every kind of "general practitioner" attendance on insured persons, except actual attendance at or shortly after confinement; and (2) be determined without reference to the Drug Fund, the responsibility for any deficiency in the latter being assumed by the Treasury.

#### Possible Abolition of "Floating Sixpence."

43. It is probable that some such ingenious arrangement as that known as the "floating sixpence" was necessary at the commencement of medical benefit, and it has certainly served a useful purpose. From the beginning, however, in addition to seriously complicating the accounts and to necessitating (since 1916) a laborious double pricing of prescriptions, it has lent itself to the suspicion, unfounded though it may be, that doctors might stint their patients of necessary drugs to their own financial gain, and has had the further disadvantage of placing the interests of practitioners and those of pharmacists to some degree in antagonism. The experience of practitioners, pharmacists, the Commissioners, and the Treasury alike should now enable the device to be abandoned without risk; and the assumption by the Treasury of responsibility for any possible deficit in the Drug Fund (which experience shows to be very unlikely) would have the immense advantage of avoiding, as far as the profession is concerned, a number of very difficult problems, though some of these might still remain as questions between the central Government Department administering the Insurance Acts and the Treasury, or possibly between the Department and the pharmacists. Such problems are the proper definition of a "medicine" or a "drug"; the proper source of payment for expensive medicaments, such as serums, vaccines, or salvarsan; and the propriety of adding to the list of available appliances at any time.

#### Investigation of Extravagant Prescribing.

44. Nevertheless, it should remain the duty of Panel Committees to investigate cases of extravagant prescribing, with power to surcharge, or to recommend the surcharge of, an individual defaulter after proper investigation. Obviously it is right that the Treasury should be protected against real extravagance, and that any charge of such extravagance should be investigated by a professional tribunal well acquainted with the kind of practice in respect of which the charge arises. Under the new conditions there would be no financial inducement for a Panel Committee to carry out such an investigation, but the duty would, it is believed, none the less be honourably performed, and it must be understood that the undertaking of this duty would be part of the arrangement by which the Treasury would consent to take over the full responsibility. If there should be occasions on which any Panel Committee failed to carry out its duty in cases where *prima-facie* evidence of extravagance ap-

peared to exist, it should be competent for the central Government Department concerned to make the investigation through an appropriate professional tribunal and to charge the expenses of such inquiry to the Panel Committee proved in default.

#### Emergency Drugs and Dressings.

45. Certain payments would necessarily have to be made to practitioners from the Drug Fund. These would be (1) a comparatively small uniform capitation payment in respect of a defined class of medicines supplied in an emergency or of drugs usually or necessarily administered by the practitioner in person and not ordered at the cost of the Drug Fund in the usual way; and (2) a capitation payment for dressings supplied, the rate of this payment to be variable from area to area, and from practice to practice if desired, by the Panel Committee.

#### Supply of Drugs in Rural Arcas.

46. In addition to the above there remains the question of the supply in rural areas of such medicines and appliances as would in towns usually be supplied through a pharmacist. In these cases (1) the rural practitioner would require to be paid at a rate no worse in any respect than that at which the pharmacist is paid; (2) the payment might be by any one of three methods—(a) by a capitation fee ascertained yearly in each area by reference to the average cost of drugs supplied by chemists in that area; (b) by a flat rate per prescription ascertained in like manner; (c) by payment for drugs actually supplied, according to the current chemists' commercial tariff; (3) when the exigencies of the case necessitate the payment by the practitioner of the cost of postage or conveyance of medicines to some of his patients the cost incurred should be refunded; (4) no pressure should be placed upon a practitioner to dispense when he wishes not to dispense at all for his patients, and it should be possible in individual cases for doctor and patient to agree to the supply of medicines through a pharmacist, provided always that the Insurance Committee concerned is satisfied that such an arrangement is not against the interests of the service of the area. Of the three methods of payment enumerated in (2) above, the Committee is of opinion that (a) and (b) are to be preferred to (c).

#### Supply of Proprietary Medicines.

47. There is one question of a difficult character, and affecting the use of the Drug Fund, with which the profession will still be practically concerned—prescriptions for the supply of proprietary medicines, and their definition. This is a matter of great professional and ethical importance not only as regards the legitimate use of the Drug Fund, but as regards its general bearings upon public health, and the Committee is of opinion that it should be discussed in all its aspects and reported upon by the Medical Consultative Council to the Ministry of Health when such Council is established.

#### Charges for Medicines to Insured Persons.

48. The attention of the Committee has been drawn to the fact that there are cases in which practitioners have created or encouraged the impression in the minds of insured persons on their list that the medicine they could supply would be better than could be supplied under the insurance arrangements, and made a practice of charging insured persons therefor. The impropriety of this practice is so evident that the profession will doubtless be prepared to support any measure for preventing it. It is assumed that proper steps will be taken also to secure that the drugs supplied to insured persons are of proper quality and amount.

### Inquiry about a Panel Practitioner.

A public inquiry under Part VI. of the National Health Insurance (Medical Benefit) Regulations (England), 1913, was held at the head office of the Insurance Commissioners, Buckingham Gate, London, S.W., on June 3, to ascertain whether the continuance of Dr. A. W. Cadman, 2 Linden Gardens, Notting Hill Gate, W., upon the panel, is prejudicial to the efficiency of the medical service of the insured. The Court of Inquiry consisted of Mr. Andrews Uthwatt, barrister-at-law, Dr. A. Lyndon, and Dr. W. Freeman. The London Insurance Committee was represented by Mr. Matthew, with whom was Mr. Thomas Batey; Mr. Goddard appeared for Dr. Cadman. Seven complaints of irregularities with regard to visits and certificates were brought forward, the case occupying several hours. The findings will be promulgated.



## Reports from Local Centres.

### ENGLAND.

**Bournemouth.**—The annual report of the Insurance Committee gives the following statistics:

	1918	1917	1916
Prescriptions dispensed ...	64,850	57,114	67,462
Average cost ...	7.91.	6.44.	6.44.

It will be noted that the number and costs for the past year show increases over the previous year. This is to some extent due to the increase in the dispensing-fee owing to war conditions, and to the epidemic of influenza in October and November. The general average cost per prescription in the area compares favourably with other areas in the south-western district of England. The number of prescriptions given to persons receiving sanatorium benefit in the form of domiciliary treatment during the year was 1,187, and the cost was 62*l.* 1*s.* 9*d.*, as against 19*l.* 3*s.* 3*d.* in 1917. Attention was called to this large increase. Prescriptions to temporary residents totalled 1,372, and the cost was 50*l.* 4*s.* 11*d.* The Drug Fund accounts paid since the last meeting amounted to 664*l.* 19*s.* 5*d.*

**Cheshire.**—The Pharmaceutical Committee sat on May 28, when it was announced that the Middlewich dispensing service difficulty has now been settled (*C. & D.*, March 1, p. 65). Congleton Association sent in a request for some steps to be taken to deal with the question of evening hours of closing. A substantial increase in the number of insured persons and in the amount paid for drugs during 1918 as compared with 1917 was reported, the figure per script remaining about the same. The delegates to the recent Local Associations Executive Conference also gave their report. The unsatisfactory condition of county organisation was then discussed. Some districts, such as the Wirral, are not properly organised at all, and the County Borough areas are out of all touch with the county itself. Attendance at the county meetings is extremely scanty, and as this may be due to the distances to be covered by some, it was decided to vary the meeting-place. A general meeting for the county is provisionally planned for June at Crewe. It is specially asked that every pharmacist who can attend will do so.

**Middlesex.**—At the meeting of the Insurance Committee, held on June 2, the report of the Finance Sub-Committee recommended that the following payments be made: To chemists for the medical year 1919, 5,436*l.* 5*s.* 7*d.*; 1918, 10*l.* 0*s.* 8*d.*; to doctors for drugs supplied to invalided soldiers, 4*l.* 11*s.* 7*d.* The report was adopted. The Pharmaceutical Service Sub-Committee recommended that no further action be taken on a complaint made by an insured person that he had been supplied by a chemist's assistant with two pieces of bandage instead of one six yards in length. The recommendation was adopted.

**Portsmouth.**—At a meeting of the Insurance Committee, on May 29, a letter was received from the Pricing Committee referring to the reassessment calculations made under Article 5 of the Medical Benefit Regulations, 1916, for the second quarter of 1918, in respect of the Portsmouth prescriptions. It was observed that the ratio between the ingredient prices was practically identical with the ratio obtained as a result of the calculation for 1917. The Commissioners also pointed out that the same observation applied to the dispensing-fees, and suggested that the ratio thus obtained should apply to the year 1919, subject to any special circumstances arising. The Panel Committee having agreed to these principles, it was resolved that the Pricing Committee should be informed of the agreement of both the Insurance and Panel Committees. The proportion of expenditure payable by the Committee for the cost of pricing the prescriptions for 1919 was returned as 160*l.*, and having regard to this being a considerable increase on the sum originally demanded it was resolved to draw the attention of the Commissioners thereto and request them to take into consideration the question of increasing the special grant for this specific purpose. The Finance Sub-Committee reported the final settlement with chemists on the panel arising out of surcharging proceedings (*C. & D.*, May 31, p. 64). The pricing of prescriptions for the months of February and March 1919 resulted as follows:

	No. of Scripts	Cost £ s. d.	Average per Script d.
January ...	8,536	365 13 6	8.54
February ...	14,493	512 0 11	8.47
March ...	13,626	466 16 5	8.22

**Salford.**—A panel chemist recently sent to the Pricing Bureau a batch of prescriptions dating from October 1918 to March 1919. As the accounts for the year 1918 had been

closed these were referred to the Insurance Committee, who decided that the prescriptions for 1919 only be accepted for payment, directing the Clerk to call the chemist's attention to the necessity in future of complying with the instructions issued. As will be seen from the following comparative statements for 1917 and 1918, the cost of prescribing has very much increased:

	1917	1918
No. of prescriptions ...	302,839	334,814
Average cost per prescription ...	5.72 <i>d.</i>	7.02 <i>d.</i>
Average cost per person ...	18.55 <i>d.</i>	24.98 <i>d.</i>

**Sheffield.**—At a recent meeting of the Pharmaceutical Committee, Mr. Culverhouse (Chairman) welcomed Messrs. Chadwick and Hallatt on their return after their recent illnesses. The Insurance Committee has requested details of the delay in the delivery of goods by the railway companies. It was decided to forward a resolution to the Local Associations Executive protesting against anyone (other than officials giving information), except duly appointed delegates, giving an address (unless called on by the Chairman or the Conference to do so). Mr. G. A. Mallinson was appointed returning officer for the election of the Pharmaceutical Committee. The checking of the December scripts was considered satisfactory. The annual report and balance-sheet is to be printed and circulated among the members. It was decided to arrange a conference with the Panel Committee with a view to agreeing to an earlier hour of closing. The thanks of the Committee were offered to Mr. Meadows and his staff for their promptitude in securing payment of the March accounts. The amount paid to chemists for the month of April is 1,135*l.* 16*s.* The number of insured persons available on the capitation basis on April 1 was 186,411.

**Smethwick.**—The Medical Benefit Sub-Committee in its report at a meeting of the Insurance Committee, held on June 3, gave the following statistics:

#### REASSESSMENT OF DRUG PRICES, 1918.

	Current Tariff	"Article 5" Tariff
	£ s. d.	£ s. d.
Cost of ingredients ...	934 14 9	1,625 0 7
Cost of dispensing fees ...	1,128 15 8	599 7 8

#### DATA re PRESCRIBING.

##### Quarter ended March 31—

Cost of ingredients ...	309 <i>l.</i> 4 <i>s.</i> 7 <i>d.</i>
Cost of dispensing fees ...	386 <i>l.</i> 1 <i>s.</i> 0 <i>d.</i>
Number of prescriptions ...	24,026
Average ingredient price ...	3 <i>s.</i> 9 <i>d.</i>
Average dispensing fee... ..	3.83 <i>d.</i>
Average number of prescriptions for insured person ...	0.87

The sum of 10*l.* to cover the administration expenses of the Pharmaceutical Committee was approved.—The Finance and General Purposes Sub-Committee announced that the West Midlands Joint Committee had issued a report stating that the number of prescriptions dealt with by the Pricing Office for the period December 1, 1917, to November 30, 1918, was 2,253,255, of that number 78,033 being from the area of the Smethwick Insurance Committee. The total expenses chargeable to the constituent Committees for the year was 1,794*l.* 12*s.* 2*d.*, the proportion payable by the Smethwick Committee being 62*l.* 2*s.* 11*d.* The matter of an advertisement displayed by a chemist was considered. The advertisement, which appears on the blind at the shop in question, states "Only address for Insurance dispensing." The Sub-Committee considers that this announcement is likely to be misleading to insured persons, and has directed the Clerk to inform the chemist that the wording of the advertisement should be altered. The attention of the chemist has already been drawn to the matter by the Clerk without result. Payment to chemists of February balances and March advances amounted to 308*l.* 15*s.* 7*d.*; March balances and April advances, 214*l.* 4*s.* 10*d.* The Insurance Commissioners state that the Panel and Pharmaceutical Committees should be re-elected in July.

**Stafford.**—The number of scripts for Staffordshire last dealt with amounted to 475,787, at an average cost of 7.6*d.* The 1919 account for checking has been passed, and the Secretary authorised to pay.

## Gazette.

### Partnership Dissolved.

SHAW, F., DUNN, C. A., and SHAW, F. C. O., 56/59 Bunhill Row, London, E.C., wholesale and export druggists, under the style of George Curling, Wyman & Co., so far as concerns C. A. Dunn.



## Drug-trade Appeal Fund.

THE ANNUAL MEETING of the subscribers to the Drug-trade Appeal Fund was held on May 29 at the offices of the Chemists' Defence Association, 110 Temple Chambers, London, E.C. The chair was occupied by Mr. Charles A. Hill, and there were also present Messrs. J. G. Atkinson, W. Fred Gulliver, Geo. J. Knight, E. Pickering, and Frank W. Truman, with the Secretary (Mr. W. Johnston).

After the notice calling the meeting had been read and the minutes of the annual meeting held last year had been confirmed, the Secretary read the annual report. This stated that the Trustees had not undertaken any appeals during the past year. They had one under consideration, and they would have taken it to the High Court if the magistrates had seen their way to state a case in such a manner that a straight answer could have been obtained from the Court of Appeal. That was the Windermere case heard by the Kingston-on-Thames Justices. The summons was for the sale of Epsom salts containing minute proportions of iron oxide, chlorides, and nickel. The full B.P. percentage of magnesium sulphate was present, and medical evidence was given that the slight impurities found would have no prejudicial effect on persons taking the chemical. Notwithstanding this, the Justices persisted in including in their statement for the High Court an observation that they had found as a fact on evidence that the article was not of the nature, substance, and quality demanded, and that it was to the prejudice of the purchaser. As the Court of Appeal does not review "findings of fact" the Trustees were advised to abandon the appeal, as no result of benefit to the trade could have been anticipated under such conditions. The Trustees expressed the hope that another more favourable case might arise in which the question at issue could be settled definitely as to whether an offence had been committed when there was no evidence of medical or other prejudice. The case had caused a good deal of work to the lawyers, and necessitated getting the opinion of two eminent counsel. One consequence of that was that there had been a slight excess of expenditure over income. The statement of accounts showed that the income, entirely derived from dividends on War Loan and interest on deposit account, had amounted to 29*l.* 2*s.* 1*d.*, and the expenditure to 30*l.* 13*s.* 2*d.*, showing an excess over income of 1*l.* 11*s.* 1*d.* The principal item of expenditure was legal expenses amounting to 22*l.* 16*s.* 2*d.* The balance-sheet showed that the principal assets consist of 5 per cent. War Stock (Bonds) 99*l.* 9*s.* 4*d.*, and War Stock (Bonds) 429*l.* 11*s.*, and from these the income was mainly derived.

The Chairman formally proposed the adoption of the report, which was seconded by Mr. Truman, and after a very brief discussion was unanimously agreed to.

On the motion of Mr. Pickering, seconded by Mr. Johnston, the Trustees were re-elected as follows: Messrs. J. G. Atkinson, J. F. Harrington, C. A. Hill, D. Lloyd Howard, L. O. Johnson, and G. J. Knight.

In reply to Mr. Atkinson, the Secretary stated that no effort was being made to get any increase to the Fund. Mr. Atkinson: I thought it would be advisable to get in some donations and subscriptions. They won't come in unless they are asked for. The Secretary: We had better wait, I think, till the necessity arises. The Chairman: Then you have no grounds for making an appeal? The Secretary: Our income is in excess of our expenditure, unless we have some exceptional expenditure such as we had last year. Mr. Atkinson: My suggestion was made in view of the probability that a good many cases would come up. The Chairman: Then there would be an appeal. The Secretary: On a former occasion Mr. Walter Hills expressed the feeling that if another occasion arose he was certain the trade would rise to their responsibility and to any demand that might be made, and would provide ample funds if any appeals were necessary. Mr. Knight: I recollect that occasion, and another when—I do not know if Mr. Walter Hills was there—three or four well-connected individuals seemed to think that it was quite well enough to go on as we were going, and that if occasion arose there was no doubt the contributions would be forthcoming.

On the motion of Mr. Pickering a vote of thanks to the Trustees was passed.

The Secretary remarked that although the attendance of subscribers on the present occasion was small it was not due to their want of interest in the Fund, but rather to the fact that they felt that their interests were perfectly safe in the hands of the Trustees.

The Chairman, in acknowledging the vote, remarked that in the case referred to in the annual report the Trustees had done the right thing. If they had turned it down with-

out taking legal advice they would have felt that they had not done their best.

A vote of thanks to the Chairman concluded the proceedings.

## Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

### QUALITATIVE ANALYSIS FOR JUNIOR STUDENTS.

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopœia, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a stamped and addressed envelope, marked "Corner for Students" on the top left-hand corner) will be received up to Tuesday, June 10, on which day the samples will be posted.

Students' reports will be received up to Saturday, June 21. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

SPECIAL NOTICE.—The prizes in this series of analyses will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, *which fact must be attested on their reports*. Others may obtain specimens of the mixture of salts, and their reports will be separately adjudicated, but they will be regarded as *hors concours*. Correspondents who do not state that they are preparing for a Qualifying examination will be included in the latter list.

## Japanese Potassium Chlorate.

FOLLOWING the outbreak of the war, the manufacture of potassium chlorate in Japan underwent great development, but subsequently there was considerable over-production, and depression ensued, high freights and the unwillingness of steamship owners to carry the chemical aggravating the situation. It was only in 1908 that the first maker (the Nippon Kagaku Kogyo Kaisha) appeared in Japan, and it was not until 1912 that any considerable quantity of the product appeared on the market. During the war the suspension of imports sent up prices, and a number of new makers came forward. The industry continued active until 1918, when a decline in prices and depression set in. The trade now depends chiefly on exports to the United States and South America. According to investigations made by the Department of Agriculture and Commerce, at the end of 1917 there were forty-nine factories engaged in the industry, the total capacity of the works amounting to 10,000 tons a year, but the actual output totalled only 6,000 tons. The capital invested in the industry is about six million yen. About 60 per cent. of the total output is represented by that of the Nippon Kagaku Kogyo Kaisha, Nippon Denka Kogyo Kaisha, and the Kyushu Kido Kaisha. The increase in the domestic demand is much less than the output. No definite figures regarding domestic consumption are available, but there is reason to believe that before the war it amounted to about 3,700 tons. It seems that the trade has now passed the height of prosperity, but prices are still high as compared with the pre-war quotations. As to the future prospects, considerable doubt is expressed whether Japanese producers will be able to compete successfully with their British and German rivals. As a remedy it is urged that small-scale producers should combine, so as to increase their powers of resistance against foreign competitors.

EDUCATION IN INDUSTRY.—Lord Leverhulme has accepted the presidency of "The Association for the Advancement of Education in Industry and Commerce," which was formed in London recently.

MOTHS ON FRUIT TREES.—The Food Production Department is calling attention to the ravages of the "lackey" moth on fruit-trees, and advises spraying infected trees with a solution of lead arsenate.



## Legal Reports.

**What is Arrowroot?**—At Wigan, on May 24, Margaret Ann Holme, 219 Liverpool Road, Hindley, was summoned under the Sale of Food and Drugs Acts for selling as arrowroot an article which was not of the substance and quality demanded. The inspector said he asked for 1 lb. of arrowroot, and was supplied with an article for which he paid 1s. 10d. Mr. Collingwood Williams, county analyst, said he had analysed the sample, and found it to contain 10 per cent. of potato starch and 90 per cent. of maize starch. He had looked up 235 cases of arrowroot analysis since 1900, and of these 202 were of Maranta starch. True arrowroot was a starch prepared from *Maranta arundinacea*, grown principally in the West Indies and in Natal. The term was occasionally applied to the starches obtained from certain other tropical roots and tubers, generally with some distinguishing prefix, but these were rarely met with in the shops. Potato and maize starches were not, in his opinion, properly described as arrowroot, and were, moreover, considerably cheaper than Maranta starch. The sample obtained from the defendant's shop was really adulterated cornflour. In reply to defendant's solicitor, witness said there is no standard fixed by the Government for arrowroot. Witness, replying to other questions, admitted that there are a number of pure starches which are styled arrowroot, but the sample in question could not by any stretch of imagination be described as arrowroot. The Chairman said there was a serious element in the case, and ordered the defendant to pay costs.

**Salicylic-acid Dispute.**—In the City of London Court, on June 3, before Sir J. Paget, K.C., Deputy Judge, Henry Morton, trading as Morton & Son, 4 Croom's Hill, Greenwich, claimed 17. 10s. from R. Lane Hall & Co., Ltd., chemical merchants, 4 Lloyd's Avenue, E.C., being return of money paid for goods not delivered. Plaintiff said in August he ordered 56 lb. of salicylic acid of the defendants at 3s. per lb. They delivered some of the goods but not the balance, and he now demanded the value of the goods not sent. As the price had fallen by quite 25 per cent. he could not sell the goods even if they were now delivered. Defendants' traveller proceeded to read a typed statement which, he said, he had been sent to put before the Court. In that he said the firm received an order for 23 lb. After having the goods in their place for some time the plaintiff asked them to exchange 23 lb. of salicylic acid, B.P., for 23 lb. of technical salicylic acid. The defendants agreed to that. Plaintiff sent a box which was supposed to be 23 lb. salicylic acid, B.P., but it only contained 17 lb. Plaintiff said that the technical acid was very dark. He took 1 lb. out to try and experiment with, and found it would not answer his purpose, so that he returned the whole of it. Defendants sent him 17 lb. instead of 27 lb. Sir John Paget said he could not give any heed to the statement read by the defendants' traveller, who could not swear to the truth of it. Defendants' traveller said that they had a letter from the plaintiff saying the shortage was a surprise to him. Sir John Paget said it was not the fault of the witness who appeared for the defendants, but he was not in a position to conduct the case. He should have employed a solicitor or brought someone who could swear to the facts which he had stated. Sir John Paget gave judgment for the plaintiff, with costs.

**An Inventor's Troubles.**—In the City of London Court, on May 30, before Sir John Paget, K.C., Deputy Judge, Mr. William Winter, trading as W. A. Winter & Co., Hazlebank Road, Catford, claimed 58l. 5s. 8d. against Mr. W. Rowland Edwards, trading as Rowland Edwards & Co., Dashwood House, New Broad Street, E.C., for sugar boxes or flasks supplied. Defendant raised a counterclaim for over 400l., because he said the boxes supplied were not equal to sample, and were rejected by, among others, Boots, Ltd., chemists, Nottingham. Mr. Sandlands, for the plaintiff, said that the case concerned a little box which the defendant had invented, and which he thought would be useful to the public in which to take their sugar rations about with them. Having all the optimism of the inventor, he was very much impressed with the box. It was pointed out that it would require special tools and special machinery to make the box as defendant wanted, and that it would take a good deal of money to turn out a first-class box. Defendant did not want to spend much money on it, but he wanted the box nickel-plated. Plaintiff said that would go black in a few days, and he pointed out that the defendant could have a coat of copper put on and then the nickel-plate on the top. Defendant said he wanted to place a large order with the plaintiff, and plaintiff agreed to supply defendant with 10,000 a week at 9d. each when the tools were completed

and if they could get the necessary materials. In fact, no definite order was ever given, as defendant was never satisfied with anything that the plaintiff did. Defendant had paid two of the plaintiff's accounts, and there was a balance of the sum sued for now due. Defendant's case was that he had suffered loss of profit in plaintiff not doing work as directed. He had lost over 400l. in consequence. Evidence was called to show that powder-boxes had to be converted into sugar-boxes because of plaintiff's non-supply, so great was the demand by the public. Sir John Paget, K.C., Deputy Judge, found for the plaintiff on the claim and counterclaim, with costs.

## New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

**WYLTON-MARSHALL REMEDY CO., LTD. (P.C.).**—Capital 100l. Objects: To carry on business as manufacturers of and dealers in patent medicines, soaps, perfumes, hair oils, etc. Solicitor: H. I. Mander, Bayley Lanex Chambers, Coventry.

**RUSSIAN AMERICAN COMMERCE CO., LTD. (P.C.).**—Capital 2,500l. Objects: To carry on business as importers, exporters, buyers, and sellers of drugs, chemicals, dyestuffs, oils, colours, and proprietary goods, etc. R.O., 19 St. Bride Street, London, E.C.

**J. & E. ATKINSON (FRANCE), LTD. (P.C.).**—Capital 5,000l. Objects: To acquire the business of perfumers, soap makers, dealers and importers, carried on by J. & E. Atkinson, Ltd., at 2 Rue de La Paix, Paris. R.O., 1 Southwark Park Road, Bermondsey, London, S.E.

**ELSTREE CHEMICAL WORKS, LTD. (P.C.).**—Capital 50,000l. Objects: To enter into agreement between W. Dederick, W. Dederick, Ltd., and W. McLintock (for this company), and to acquire the business of manufacturers of nitrogenous fertilisers formerly carried on at Boreham Wood, Herts, as the "Elstree Chemical Works." The Board of Trade has authorised the acquisition by this company of part of the undertaking of W. Dederick, Ltd., the books and documents of which were liable to inspection under Section 2 of the Trading with the Enemy Act. R.O., 18 Imperial Buildings, Ludgate Circus, London, E.C.

**BRUNNER MOND & Co., LTD.**—The directors announce a dividend for the year ended March 31, 1919, of 10 per cent. on the ordinary shares (less tax), less interim dividend paid in December; 100,000l. is placed to suspense account, and 138,000l. carried forward.

**GENATOSAN, LTD.**—This company, with an authorised capital of 264,000l., is issuing 100,000 8 per cent. cumulative preference shares of 1l. each at par. The company's four principal products are sanatogen, formamin, genasprin, and cystopurin. The prospectus and form of application are given in the advertising pages of this issue.

**THE "SANTAS" CO., LTD.**—The report for the year ended March 31, 1919, states there has been a considerable increase in the company's trade, which would have been even more satisfactory but for the difficulties of obtaining adequate supplies of certain materials. The balance at credit of profit and loss, including the amount brought forward, amounts to 30,435l. After deducting dividend on the preference shares there is left 11,794l. The directors recommend a dividend of 9 per cent. on the ordinary shares for the year, and carry forward 2,794l.

**SMITH, STANISTREET & Co., LTD., CALCUTTA.**—A limited number of shares, amounting in value to about one lakh of rupees, have been put on the market. At the flotation of the business into a limited liability concern in 1918, the right to hold ordinary shares was reserved to the employees of the firm; but certain events have arisen necessitating a moderate amount of liquidation of interests, and the articles of the company have recently been arranged with this object in view. From unavoidable causes the report for the twelve months ended March 31, 1918, was not issued until December last; but the delay was useful in leading to a more conservative estimate of stocks than might otherwise have been made. The annual report to March 31, 1919, will be issued in July, and although the Armistice has resulted in somewhat decreased sales, the ten-months' turnover to January 31 last is greater than that of the immediately corresponding period. The depression in the drug-trade may possibly last for a few months more, but against that the altered conditions have enabled the undertaking to expedite arrangements for the import and erection of plant for certain post-war manufactures which have been under consideration for some time.



## Birth.

**THOMPSON.**—At "Winterbourne," Shaftmoorham, Hall Green, Birmingham, on June 2, the wife of Hubert Thompson, chemist and druggist, of a son.

## Marriages.

**BRODIE—HENDERSON.**—At 27 East Trinity Road, Edinburgh, on June 2, by the Rev. James Adamson, Bonnington U.F. Church, Gunner Mervyn Hall Brodie, R.G.A., to Gem Beveridge, youngest daughter of the late Mr. James B. Henderson, chemist, Dollar.

**MITCHELL-FREEMAN.**—At Holy Trinity Church, Bordesley, Birmingham, on May 31, by the Rev. H. M. Foyl, Vicar, assisted by the Rev. W. W. Baker, Robert F. Z. Mitchell, Ashfield, Sydney, N.S.W., to Evelyn Maud, eldest daughter of Mr. F. Freeman, pharmacist, Small Heath.

## Deaths.

**BRAMMALL.**—At Oak Cottage, Plumpton, Sussex, on May 21, suddenly, Mr. Robert Thomas Brammall, chemist and druggist, aged eighty-one. Mr. Brammall was in business in Stockport from 1859 to 1889 as a chemist and dentist, and afterwards practised as a dentist in Brighton for about twelve years, retiring to Plumpton some fifteen years ago.

**COTTE.**—At his residence, Ningwood Manor House, Yarmouth, Isle of Wight, on June 2, suddenly, Mr. Ernest Wyndham Cottle, M.D., F.R.C.S. Dr. Wyndham Cottle was the winner of the Herbert Prize at Netley in 1871, in which year he also qualified in medicine and surgery. For many years he had an extensive West-End practice as a consultant on diseases of the skin, and made considerable contributions to medical literature.

**DALEY.**—Private Thomas Daley, Lancashire Fusiliers, previously known to be missing (*C. & D.*, 1918, p. 421), is now officially reported killed in action in March 1918. In civil life Private Daley was with H. D. Pochin & Co., Ltd., manufacturing chemists, Warrington.

**DAVIS.**—At his residence, 74 Stapleton Hall Road, London, N. 4, on May 25, Mr. Henry Davis, President of the London Association of Country Commercial Travellers, aged seventy-six. The funeral took place at Highgate Cemetery on May 28, a deputation from the Association being present.

**MACLACHLAN.**—At Crieff, on May 25, Mr. James Baird MacLachlan, a director of the Hillcrest Oil Co. (Bradford), Ltd., Victoria Works, Clayton, Manchester.

**PRATT.**—At "West Brow," Warwick, on May 25, Mr. Henry Pratt, Ph.C., aged seventy-nine. Mr. Pratt, who was born at Budbrooke, was the fourth member of his family carrying on business as a chemist at Warwick. He won the Herbarium silver medal at Bloomsbury Square in 1859, and passed the Major examination in 1861. Mr. Pratt was for some years a member of the Warwick Town Council and other public bodies, and was much respected for his sound judgment and decision of character. He was an excellent shot, and was able to enjoy his favourite sport until about three years ago. He is survived by a widow, two sons and a daughter. The elder of the sons, the Hon. H. S. Pratt, is a judge of the Supreme Court of Burma; the younger, Mr. Charles Pratt, chemist and druggist, has succeeded his father in business.

**RANSOM.**—Second-Lieutenant Hubert W. Ransom, R.F.C., previously reported missing, is now presumed killed in action on March 27, 1918. Second-Lieutenant Ransom was the third son of Mr. Francis Ransom, Ph.C., F.C.S. (Chairman of William Ransom & Son, Ltd.), "The Chilterns," Hitchin.

**REDWOOD.**—At his residence, 18 Avenue Road, London, N.W. 8, on June 4, after a brief illness, Sir Boverton Redwood, Bart., D.Sc., F.I.C., F.C.S., F.R.S.E., aged seventy-three. Sir Boverton Redwood was the son of the late Theophilus Redwood, Ph.D., Professor of Chemistry at the Bloomsbury Square School of Pharmacy. After leaving University College School, he became lecture-assistant to his father, to whose memory he paid a filial tribute in the course of an address at the opening of the "Square" School session in 1905 (*C. & D.*, II., 1905, p. 594). The bent of Sir (then Mr.) Boverton Redwood's mind took him in the direction of the application of chemistry to industry; he specialised in the study of petroleum, and was engaged as consulting chemist by the Anglo-American Oil Company. He gave evidence at the inquiry held in 1897 by the Petroleum Committee to determine the safety flash-point of petroleum. He accompanied the late Sir Vivian Majendie on visits of inspection to the chief centres of petroleum distribution in this country, on the Continent, in the United States and Canada. His position in his profession was recognised by his appointment as adviser on petroleum to the Admiralty, the Home Office, the India Office, the Colonial Office, the Corporation of London, the Port of London Authority, and the Thames Conservancy. He was in 1907 President of the Society of Chemical Industry, and served on the Royal Commission (1912) on fuel and engines, and other boards of inquiry. During the war his services were in constant requisition by the Government, and he acted as Director of Technical Investigations, Petroleum Executive. He was the author of a number of works on petroleum and its technology. Sir Boverton, who was knighted in 1905 and created a baronet in 1911, leaves two daughters. His only son died in 1911, and the heir to the title is his grandson.



SIR BOVERTON REDWOOD, BART.

**YEOMANS.**—Recently, after a brief illness, Mr. Frederick Arthur Yeomans, chemist and druggist, manager to Boots, Ltd., at Carrington Street, Nottingham. Mr. Yeomans qualified in 1902. The funeral took place at Warrington on May 29.

## Cox's Staff Dinner.

On May 29, in the Old Ship Hotel, Brighton, the directors of Arthur H. Cox & Co., Ltd., gave a dinner to the members of the permanent staff. Mr. Arthur H. Cox was in the chair, supported by the entire directorate and management. The toast of the evening was "The Directors," proposed by Mr. P. J. Wigginton, who in the course of his speech outlined the growth of the company. He congratulated the directors upon their generosity in granting a bonus to those of the staff who had remained at home, and for their support of the sixty who had been on active service. He alluded briefly to the attitude of the trade unions, and the enormous rush of work at the time of the saccharin shortage. Mr. Ernest E. Edmonds, the company's auditor, followed with the statement that the directors had instructed him to prepare a profit-sharing scheme for the whole of the staff. In his acknowledgment the Chairman said he was pleased to see round him the employees, several of whom had been in his father's employ some fifty years ago. Mr. E. E. Cox, in proposing the toast of "The Staff," announced that the ex-Service men would be elected *en bloc* to the permanent staff, which would mean an instant increased remuneration. An excellent concert, arranged by Mr. H. Worsley, a member of the staff, followed, the outstanding features being some illusions given by Mr. C. H. Percival Lloyd, and humorous songs from Mr. H. Taylor. Other employees contributed to a very pleasant evening.



## A New Form of Calomel.

A NEW method of preparing calomel in a bulky and therapeutically highly active form has been devised by Duret, and particulars of the new form are given in the "Annales de l'Institut Pasteur." In view of the importance attached to the use of calomel, in the shape of an ointment and also of hypodermic injections, his process and conclusions are of particular interest. The method is based on the following reactions: Sodium bicarbonate reacts with magnesium chloride to form sodium chloride and magnesium bicarbonate. Hydrochloric acid (liberated by the reduction of mercuric chloride) reacts with the magnesium bicarbonate thus formed to yield, again, magnesium chloride; simultaneously the mercuric chloride present is reduced to mercurous chloride. The details are as follows: A solution of

Sodium bicarbonate	...	...	6 grams
Pure glucose	...	...	10 grams
Distilled water	...	...	80 grams

is added to a solution of crystalline magnesium chloride, 7.5 grams in 20 grams of distilled water. This mixture is then added to the following solution, contained in a flask of 500 c.c. capacity:

Mercuric chloride	...	...	11.5 grams
Hydrochloric acid (33.65 per cent.)	...	...	10 drops
Distilled water	...	...	100 grams

Carbon dioxide is liberated, while mercurous chloride is precipitated in a very finely divided state. To complete the reaction, the flask is heated on a water-bath, with constant agitation until no more gas is evolved. It is then allowed to cool, filtered, and the precipitated mercurous chloride is washed with cold distilled water. This formula yields about 10 grams of calomel, in a form three times bulkier than the ordinary preparation. The amounts given must be strictly adhered to, as an excess of magnesium bicarbonate would yield magnesium carbonate mixed with the calomel; while an insufficient amount of magnesium bicarbonate would result in leaving unchanged a portion of the mercuric chloride. Tests which were conducted by the author showed that the calomel obtained by this method is ionised in water to a greater extent than the ordinary product (tested with diphenylcarbazid and sodium monosulphide), and for this reason its therapeutic activity is also greater. Experiments showed that this finely divided calomel, in the presence of organic substances, was dissociated into metallic mercury in a state of extremely fine subdivision; consequently by this method it is possible to employ mercury *in statu nascendi*, thus assuring its rapid absorption. For its application as calomel ointment the author gives the following formula:

Precipitated calomel (obtained by above process)	...	...	10 grams
Crystalline magnesium chloride	...	...	10 grams
Sodium bicarbonate	...	...	7 grams
Thymol	...	...	0.15 gram
Camphor	...	...	0.35 gram
Glycerin of starch	...	...	15 grams
Arachis oil	...	...	15 grams
Anhydrous lanolin	...	...	20 grams
Distilled water	...	...	25 grams

The magnesium chloride, sodium bicarbonate, and water are mixed in a mortar, the precipitated calomel added, and then the glycerin of starch. Melt by gentle heat the anhydrous lanolin in 10 grams of arachis oil, add the thymol and camphor previously dissolved in 5 grams of arachis oil, and while liquid add the whole to the first mixture, and heat until a homogeneous ointment is obtained.

For the hypodermic injection of calomel the following formula is given:

Mercuric chloride	...	...	5.75 grams
Hydrochloric acid (33.65 per cent.)	...	...	5 drops
Glucose	...	...	5 grams
Sodium bicarbonate	...	...	3 grams
Crystalline magnesium chloride	...	...	3.75 grams
Distilled water	...	...	20 grams
Syrup to	...	...	100 c.c.

Dissolve in a flask of 200 c.c. capacity the mercuric chloride, by warming, in the distilled water to which the hydrochloric acid has been added, then add the glucose. Mix, in a porcelain capsule, the sodium bicarbonate with about 50 grams of syrup, add the magnesium chloride and mix. Now add the mixture to the contents of the flask. The capsule is repeatedly rinsed with small amounts of syrup, which are added to the flask. Shake and warm on a water-bath until the evolution of gas has almost ceased; allow to cool, and add sufficient syrup to produce 100 c.c. This yields 5 grams of calomel (1 c.c.=0.05 gram of calomel) in

extremely fine subdivision, which keeps for a long time in suspension.

To avoid the pain which follows the injection of calomel, and which is due to the liberation of free hydrochloric acid, the following modification is employed:

Mercuric chloride	...	...	6.775 grams
Hydrochloric acid (33.65 per cent.)	...	...	5 drops
Glucose	...	...	5 grams
Sodium bicarbonate	...	...	8.65 grams
Crystalline magnesium chloride	...	...	10.5 grams
Distilled water	...	...	25 grams
Syrup to	...	...	100 c.c.

Of the above, 1 c.c. corresponds to 0.06 gram of calomel.

## Personalities.

MISS C. M. LEWIS, pharmacist, has been appointed dispenser to the Wolverhampton Union.

MR. PERCY J. ASHFIELD, chemist and druggist, Rhyl, has been re-elected President of the Rhyl Advertising Association.

MR. W. J. BARNES, chemist and druggist, Dover, has been elected Vice-Chairman of the East Kent Joint Sanitary Committee.

LORD ERNLE has resigned his appointment as President of the Board of Agriculture, to which he was appointed in December 1916.

MR. J. T. T. ROLFE, chemist and druggist, Faversham, has been appointed Steward of the Harmony Lodge of Freemasons, of which he is a Past Master.

TWO WOLVERHAMPTON PHARMACISTS, Messrs. E. H. Bowdler and M. R. Warner, have been reappointed churchwardens at St. Mary's and St. Mark's respectively.

MR. F. J. GIBSON, J.P., chemist and druggist, has been elected a representative of the Wolverhampton Insurance Committee on the Tuberculosis After-care Committee.

MR. A. E. RICHMOND, chemist and druggist, Great Yarmouth, has been appointed by the Yarmouth Insurance Committee as its representative on the East Anglian Joint Pricing Committee.

CORPORAL ERIC HART, son of Mr. J. H. Hart, Ph.C., Ross, Herefordshire, has returned home after being attached to a military hospital in Salonika for over two years, during the latter part of which time he was in charge of the hospital dispensary.

MR. F. A. WILLCOCK, chemist and druggist, Wolverhampton, has been elected people's warden at St. Peter's Collegiate Church, and officiated in that capacity at the induction of a new rector on May 31. Among those present were Messrs. F. J. Gibson, J.P., J. H. Coleman, and M. R. Warner.

MR. C. GORDON DAVIES, Ph.C., Johannesburg, who is now in this country, is open to act as representative in South Africa for chemists' goods. Mr. Davies came over with the South African contingent, and after being discharged from the Army as unfit has been employed in chemical work on behalf of the Government.

MR. H. J. AUBURN, who is well known to the London wholesale drug-trade as foreman at the Cutler Street rhubarb warehouse, has retired owing to failing health. He has been in the employ of the Port of London Authority and its predecessors about forty years, succeeding the late Mr. Tapp in 1901. Mr. Auburn, who was placed on the retired list as from May 27, was one of the best judges of rhubarb in the country.

"WHEREVER a plant is grown for the service of man, there is need, sooner or later, for the scientific man."—*Professor Farmer, in the "Observer."*

PETROLEUM IN ENGLAND.—The borings for petroleum begun some weeks ago in the Midlands have resulted in a find of oil at Hardstoft. It has not yet been ascertained whether the oil is present in commercial quantities.

FOR FLY-BITES.—A London morning paper of June 4 recommends for fly-bites "a mixture of sub-acetate of lead and water, obtainable from any medical man or chemist." Liquor plumbi subacetatis dilutus is probably the fluid intended.

IT RECOGNISED THE FLAVOUR.—A woman driving a perambulator containing a crying infant—two, says one account of the incident—had a further mishap in the stoppage of the chariot through the rubber tyre of a wheel coming off. She flung it to the child in a tantrum, exclaiming, "Ere, get on wi' this!" The storm ceased immediately: the youngster had begun to chew it.



## Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks Journal," May 11, 1919.)

- "WAGTAIL"; for all goods (42). By H. Savory & Co., Ltd., 211 High Street, Lewisham, S.E. 13. 385,533.
- "MONOTART" and "MONOBAS"; for food substances (42). By A. Prescott, 1 Oswald Street, Hulme, Manchester. 389,432/3. (Associated.)
- "GIXORA"; for mineral waters, etc. (44). By Jewsbury & Brown, Ardwick Green North, Manchester. 388,542.
- "REGICO"; for goods (47) and for perfumery, etc. (48). By R. Godfrey & Co., Bush Lane House, Cannon Street, E.C. 4. 389,638/9. (Associated.)
- "NEBIRA"; for perfumery, etc. (48). By J. W. Plenderleith, 19 High Street, Montrose. 388,290.
- "G O W M"; for all goods (48). By G. & W. Mathison, 9 White Friars, Chester. 388,604.
- "FOX THOR"; for goods (48). By Société Anonyme des Parfums d'Arly, 107 Boulevard de la Mission Marchand, Courbevoie (Seine, France). 389,096.

(From "The Trade-marks Journal," May 21, 1919.)

- Flower-shaped device with Japanese characters meaning "Acetic Acid"; for acetic acid (1). By N. S. Kabushiki-Kaisha, 1893, Kamiose, Nuttari Niigata, Japan. 383,460.
- "ROCLAC"; for chemicals (1). By A. R. Walbrook, The Homestead, Welcomes Road, Kenley, Surrey. 386,691.
- "DAZZAL"; for mineral packet dyes (1). By Westmacott & Son, 77 Canal Street, Manchester. 388,731.
- "JENTIL"; for rust preventing compounds (1). By Tilney Manufacturing and Testing Ltd., Bull Inn Court, Strand, W.C. 2. 389,237.
- "KOLORINDA"; for chemicals (1) and for goods (47). By R. I. Watson, 55 Bernard Street, Leith. 389,897/8. (Associated.)
- "HELIO" and "PONOBA"; for all goods (1). By H. W. Hudson, 24 Heyburn Road, Tuebrook, Liverpool. 389,932/3.
- "BESCROBITE" and "SUPERCROBITE"; for all goods (2). By McKechnie Bros., Ltd., Rotton Park Street, Birmingham. 388,734/5. (Associated.)
- "PEPBO"; for fertilisers, etc. (2). By P. P. Syndicate, Ltd., 5 Clarence Street, Manchester. 389,390.
- "STACHOINE," "STICTACK," "TACTENE"; for fruit-tree banding material (2). By the Yalding Manufacturing Co., Ltd., near Hampshead Lane, Yalding, Kent. 389,496/7/8. (Associated.)
- "LETH-O-BRAND LINIMENT"; for liniment tablets and pills (3). By Majon, Ltd., Newton Chambers, Cannon Street, Birmingham. 386,556.
- "CURATOXINE BRAND A CHEMICAL SUBSTANCE"; for a medicinal chemical (3). By The Anglo-French Drug Co., Ltd., 118-122 Holborn, E.C. 1. 386,628.
- "AUT TO AID"; forming device for medicinal chemicals (3) and for surgical instruments, etc. (11). By Fassett & Johnson, Ltd., 86 Clerkenwell Road, E.C. 1. 388,059/60. (Associated.)
- "PARO-KON BRAND LAXATIVE"; for a laxative medicine (3). By J. R. Johnson, "Casita," Glencairn Road, Streatham, S.W. 16.
- "WYNBRO"; for medicinal chemicals (3). By Wynter Bros. & Co., Ltd., Low Green Works, Great Horton, Bradford. 388,654. (Associated.)
- "AERO-COTAROL BRAND VAPOURISING OILS"; for vapourising oils (3). By S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, E.C. 1. 389,502.
- "ONKAO"; for all goods (8 and 11). By Nordiska Kullager Aktiebolaget, 4 Kungsgatan, Göteborg, Sweden. 386,734/737. (Associated.)
- "INVICTA"; for baking-powder (42). By Scott & Turner, Ltd., 4 Gallogate, Newcastle-on-Tyne. 389,274.
- "MIGNONETTE"; for glucose (42). By Bigland, Sons & Jeffreys, Ltd., 11 Rumford Street, Liverpool. 389,833.
- Monogram "E. M."; for food substances (42). By Eustace Miles, 22 Ridgmont Gardens, London, W.C. 1. 390,167.
- "FIOMAX"; for all goods (48). By A. Davies, 25 Radcliff's Buildings, 37 Moorfields, Liverpool. 387,929.
- "FOUNTAIN" with picture of same; for soap (48). By G. W. Godwin & Son, Ordsall Lane Soap Works, Manchester. 388,263.
- "SOTOL WESDENCO" on oval label; for tooth-powder (48). By The Western Dental Manufacturing Co. (1914), Ltd., 75 Queen's Road, Bristol. 388,475. (Associated.)
- "MERRY WIVES"; for soaps (48). By Isdale & McCallum, Ltd., Rowan Street, Paisley. 388,905. (Associated.)
- "PERMOL" on diamond-shaped device; for a dentifrice (48). By F. P. Pershke, 7 Old Bailey, London, E.C. 4. 389,167.
- "MUREOL"; for perfumery, etc. (48). By T. W. Sharples, 24 Withy Grove, Manchester. 389,711.
- "THARANIQUE"; for all goods (48). By The Toilet Supply Co., 4 Maryland Road, Harrow Road, London, W. 9. 389,842.
- "SYLVESTA"; for all goods (48). By G. H. Saunders, 101 Ramuz Drive, Westcliff-on-Sea. 389,896.

(From "The Trade-marks Journal," May 28, 1919.)

- "NAMO"; for chemicals (1). By Colthurst & Harding, Ltd., 11 Queen Victoria Street, E.C. 4. 389,236.
- "FUZZOLENE"; for goods (1). By J. W. Spensley & J. W. Battersby, 49 Deansgate, Manchester. 389,117.
- "BARRIER"; for all goods (1 and 4). By J. Mathews & Co., 42 Hutton Garden, Liverpool. 389,325/4. (Associated.)
- "KAPZENE"; for goods (2). By Day & Emery, 31 Islington, Liverpool. 387,420. (Associated.)

## Trade Notes.

VIN-IRO is the name of a tonic wine offered by Haworth & Airey, Bury, Lancs. The same firm also prepare a meat-and-malt wine. The prices are given in an advertisement in this issue.

LICORICINE.—Mandall & Co., Ltd., proprietors of Licoricine, have now removed to the Tower Works, Newcastle-on-Tyne, and with increased facilities for distribution it is hoped to meet promptly the increased demand for this proprietary article.

OPTICAL INSTRUCTION.—The British and various Colonial Governments are utilising the British Optical Institute, Ltd., 20A Grove Road, Brixton, S.W. 9, for training demobilised and disabled men in optical work. Dr. Max Coque, B.Sc., the Principal, will send particulars of the scheme on application.

NETHERLANDS AGENCIES.—The firm of B. Meindersma, The Hague, which has a branch at Sneek, in the North of Holland, is specially equipped to place proprietary lines with Dutch traders. The firm has ten travellers regularly calling on all chemists and druggists. Correspondence is invited from firms having sole agencies to offer in Holland.

SILKUM CORN-PLASTER.—W. B. Cartwright, Ltd., manufacturers of pharmaceutical specialties, Rawdon, Leeds, in their advertisement in this issue are making a special line of Silkum corn-plaster. This is a "known, admitted, and approved remedy" for sale by chemists, and has points of novelty in the way it is applied to the corn. Arrangements can be made for a window-show, of which particulars will be sent on application.

AMERICAN DRUGS.—S. B. Penick & Co., Inc., send us, through their London agents, J. D. Bishop & Co., Ltd., the following note regarding American drug prices: Many British consumers of American drugs are refraining from purchasing other than small parcels in anticipation of falling prices. In a few instances this course is justified, but in a general sense the tendency is the reverse. All stocks in London and New York are high-cost goods, and fresh supplies coming in from the drug-growing districts are being gathered at a continuing high rate of cost. The cost of living in the United States of America shows little, or no decline, so that with a few exceptions lower prices should not be counted upon for at least another season; even then no one expects a return to pre-war levels.

TOOTH-PASTES.—The Standard Tablet Co., Ltd., Hove, send us a range of cartons and labels to show the large variety of packings which they employ for tooth-pastes in collapsible tubes. Among these are labels for numerous stock tooth-pastes. A particularly striking carton is one with a plum blossom design, this carton being available in six different colours. For the labels employed on the tubes there is a choice of a dozen designs, each bearing the cameo trademark. "Own Proprietary" tooth-pastes are also packed, here again being offered a wide choice of designs, both for the cartons and labels. The various specimens are well printed in colours, and the cartons have embossed designs. The company inform us that they are now in a position to supply tooth-paste in practically unlimited quantities. They cater both for wholesale and retail buyers, and are glad to send full particulars and specimens to anyone applying.

## Information Department.

### INFORMATION WANTED.

- |                                    |   |
|------------------------------------|---|
| 175/14. "Perfectpine" disinfectant | 177/48. Calcium oxychloride for electrical work |
| 174/35. Criseptic pills            | 179/41. Kola red oil for rheumatism             |
| 174/35. Howard's dental cream      | 179/39. "Nitrocine"                             |
| 172/66. Duplock's skin food        | 179/20. "Rouge de la Maxixe"                    |
| 175/36. "Euda Stugen" soap         | 179/20. Oxgall carpet soap                      |
| 176/34. "Snn-Su" (Chinese remedy)  |   |
| 175/3. Rodvay's Ready Relief       |   |

### INFORMATION SUPPLIED.

- |                                  |   |
|----------------------------------|---|
| Annatto seeds, 165/29            | "Erdol," 113/23                                     |
| "Anti-Coryza," 154/17            | Eye-shades, 140/35                                  |
| "Aphanizon," 157/15              | "Featheredge" rubber sponge (Dutch inquiry), 161/26 |
| "Caetina" pellets, 128/67        | Fenugreek-seed, 117/51                              |
| Camphor monobrom., 122/49        | Filling machines, 152/56                            |
| Capsules (empty), 140/35         | Filter-bags, 144/25                                 |
| Carabana water, 127/66           | Firth's green salve, 129/73                         |
| Corn and bunion pads, 135/34     | Forget's syrup, 151/14                              |
| Cotton wool (cwt. bales), 144/25 | Orris-root, 76/7                                    |
| Coty's perfumes, 157/6           | Oxygen baths, 132/31                                |
| "Crembas," 134/35                |   |



## Observations and Reflections.

By Xrayser II.

### The Only Argument Worth a Straw

that I have seen advanced, either in your columns or elsewhere, in favour of accepting the new by-law is that of your correspondent, "Serum," that the fact of an Act of Parliament's containing a certain provision is proof sufficient that it was meant to be acted upon. This is plausible; but what is the particular provision in question? It is that "the power of making by-laws shall be deemed to include the power of making by-laws for all or any of the following purposes" (which include the registration without examination to which we now object). There is not a word or a syllable to indicate that the Society intended or was to be forced to make such a by-law as this against the wishes of its members, and the Privy Council was perfectly well aware that the consent of its members was necessary. Circumstances might conceivably arise in which we might be willing, or even glad, to exercise the power thus given us; but until they do we are under no obligation whatever, legal or moral. I may be told that this is special pleading; that the Council foresaw at the time very much such circumstances as have arisen, and is therefore bound in honour to act on the understanding tacit between itself and the Privy Council. It may be so; the whole business is too obscure for a positive judgment; but is the Society as a whole bound? We have been allowed by both parties to think the provision permissive; if our Society had "its tongue in its cheek," so apparently had the Privy Council, and in that case we have clearly the right to repudiate an arrangement with regard to which we have been deliberately deceived. Even our Council can hardly have been so stupid as to suppose that this provision was permissive without being somehow encouraged to do so.

### The Association of Public Pharmacists

is, it seems, as strongly opposed to the new by-law as the rest of us, a fact of some significance, seeing that it is largely from public institutions that the non-examined men will come—namely, from Poor Law Institutions which come under the authority of the Local Government Board, H.M. Prisons, Lunatic Asylums controlled by local Public Authorities, and the larger General Hospitals. It is significant, too, that at the meeting of Public Pharmacists on May 19 the opinion was expressed that there is no assured finality in the scope of the by-law, as "the Society of Apothecaries may come along with claims for 'assistants' engaged in other work outside institutions." Of course, it may, and already, as your correspondence columns show, drug-store proprietors are formulating their claims, as I have always said they would. The fact is that with the principle of compulsory examination abandoned there is no finality anywhere. We are on a downward slope, to which we can see no bottom.

### The Lord Chancellor,

in moving an amendment to the Ministry of Health Bill, quoted with approval as a basis for further legislation a recommendation of the Select Committee on Patent Medicines which forbids the advertisement and sale of medicines "purporting the cure of the following diseases": "cancer, consumption, lupus, deafness, diabetes, paralysis, fits, epilepsy, locomotor ataxy, Bright's disease, rupture (without operation or appliance)." I should have said that some of these were rather symptoms than diseases, and I wonder how either a lawyer or a doctor would define, say, "fits" or "deafness" as they occur in the list. It is clear that the former does not include epilepsy, for this is specially mentioned; does it include fainting fits, hysterical fits, or convulsions, which are popularly classed as fits? And what about deafness? It is often temporary, and dependent on quite simple causes; the term is altogether too wide and indefinite, and the "disease," if it is one, has often been successfully

treated by the simplest means. "Consumption," again, has many connotations, and is at least occasionally applied to cases that I have known to be cured without expert advice. It is not a term that should be used without further definition in such an Act as is contemplated. Then, too, there is the old question, What is meant by "cure"? May we offer to relieve any or all of these complaints? I have known even epilepsy relieved to as great an extent by a "patent" as by any doctor, and I don't know that I ever knew it to be positively cured, though cures are said to have been effected by operation. There is no objection to the words of Lord Birkenhead's amendment, "the avoidance of fraud in connection with alleged remedies," but there is danger of gross injustice in the legislation to which he appears to look forward.

### The Ministry of Health,

when it is formed, will, I hope, avoid the errors and the fate of the Ministry of Brains. Those who have not given themselves the pleasure of reading Miss Rose Macaulay's caustic but most amusing satire, "What Not," may need telling that the Ministry of Brains, which came into being soon after the conclusion of the great war, was a department of the Government which had for its object the enforcement of a sort of Pelmanism combined with eugenics. One of its chief purposes was the encouragement or discouragement (as the case might be) of marriages in proportion as they seemed favourable or otherwise to the propagation of intelligence in the next generation. "Its methods were those of stimulation, reward, and punishment, rather than of coercion," but, of course, the punishments often amounted in effect to coercion, and this was the primal cause of its failure. People did not want to be made intelligent; it seemed an unwarrantable interference with the British public's right to be as stupid as it pleased. There were bonuses on the births of babies of parents conforming to the regulations, and penal fines on the babies of those who did not. The whole population was classified according to mental capacity, and marriages between those of the lower categories were also punished by fines. Thanks to the enthusiasm, tact, and general ability of the Minister this unpopular measure was submitted to for some months, in spite of the opposition from almost every quarter, but it then came to grief through the failure of the Chief to conform to his own regulations. He fell in love with one of his staff, married her secretly, and was found out. The result was the downfall of the whole Ministry.

### I Congratulate your Readers.

and, incidentally, myself, on the return to something like pre-war conditions in the appearance of the *C. & D.* Your last week's number ran to twenty-eight pages of literary matter, which is very nearly equal to what you commonly gave us in the first half of 1914, and what to ageing eyes is almost more important is the larger type and better paper of recent numbers. The *C. & D.* has always been indispensable, and never more so than during the war, but it is now once more a pleasure as well as a duty to read it. I do not know any business paper that maintained its accustomed format so well as yours during those dark days.

### Buttercups

are said to be unusually abundant this year—indeed, in many places unprecedentedly so. I have never seen the meadows near me so full of them. I do not know that this has any special significance except to the farmer, to whom this flower is no friend; cattle commonly refuse to eat it, and I have seen pastures in which it abounded very imperfectly grazed in consequence. This is due to the acidity of the juice in the plant, which caused it to be formerly used in medicine as a blister. The bruised roots were said to draw the venom of plague, and Culpeper quotes the pseudo-Apuleius as saying that "hanged about the neck when the moon is in Taurus or Scorpio they cure lunacy." The old popular name of the flower was crowfoot (*pes cornicis in Alpha*), and Shakespeare is supposed to have called it cuckoo-flower, classing it with the "idle weeds that grow in our sustaining corn."



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be always relied upon to respond to the recognised  
standards for these preparations.

## Editorial Articles.

### Japan's Chemical Trade in War-time.

On page 70 of this issue we give an interesting tabular statement of Japanese imports and exports of chemicals, drugs, and allied produce during the year 1918, compared with the two previous years. It need hardly be said that during the four years of the European war Japan has enjoyed a period of unexampled prosperity, of which she has taken full advantage, particularly (as we have shown on several occasions) in the Australian, New Zealand, Indian, Chinese, and South African markets. From the statistical returns for 1918, which are compiled on a similar plan to our Board of Trade Returns, we learn that both the imports and exports were the largest on record, the following being the figures for the past three years:

	1916	1917	1918
	Yen	Yen	Yen
Imports ...	756,428,000	1,035,811,000	1,668,144,000
Exports ...	1,127,468,000	1,603,000,000	1,962,100,600
Excess of exports	371,040,000	567,184,000	293,957,000
	[Yen = 2s. 0 $\frac{1}{2}$ d.]		

Dealing with the chemicals, drugs, and medicines section, we have the following figures:

	1916	1917	1918
	Yen	Yen	Yen
Imports ...	55,430,000	64,957,500	77,963,500
Exports ...	56,820,500	65,882,000	73,660,000

Glancing at a few of the leading items (see page 70), it will be noticed that the exports of carbide of calcium are five times greater than those of 1917, while in 1916 there were practically no exports. Caustic soda also stands high on the list, the shipments being almost double those of the previous year. Copper sulphate is a new industry for Japan, as there were no recorded exports in 1916. Chlorate of potash shows a substantial increase, but there is now a decided over-production, involving heavy losses. Sulphur and sulphuric acid show a considerable falling-off, and bleaching-powder declined somewhat. Among the chemical products which Japan commenced to manufacture and export as a result of the



war depriving her of regular supplies, we instance acetic acid, potassium bromide, permanganate, carbonate, and aspirin. Iodine and potassium iodide were sent abroad in increased quantities last year. Camphor, menthol, and oil of mint (native products) declined, particularly the first-named. Fixed oils, like linseed, castor, coconut, whale, and colza, show very marked and important developments, as prior to the war these industries were almost non-existent in Japan so far as regards exportation. Washing-soap was shipped to a greater extent, but toilet-soaps slightly declined. The growth in paints and colours was very noticeable, increasing tenfold. It is somewhat of a revelation to find that the Empire's export trade in tooth-brushes was valued at practically 800,000*l.* last year. These brushes, as the result of cheap labour, seem to have permeated all the principal markets as a result of the war, and are to be found in all multiple shops. Thermos flasks, shoe-polishes, and inks have made marked progress, likewise insect flowers and powder and unenumerated drugs and medicines. Japan is trying to build up a dye-making industry, and has already sunk approximately 640,000*l.* in factories, being able to export 350,000*l.* worth of dyes last year; but it is now doubtful if many of the factories built during the war will be able to compete with European and American competition, except under a highly protective tariff, to which there is considerable opposition, as consumers are anxious to return to the use of the formerly cheap German dyes. As an importer of fine chemicals on a large scale, Japan, in spite of the war, was able to obtain fairly good supplies, as we notice large increases in the imports of milk-sugar, acetanilide, antipyrin, santonin, aromatic chemicals, salicylic, boric and oxalic acids, formalin, bicarbonate of soda, etc. Raw materials, like paraffin-wax, logwood extract, natural indigo, olein, olive oil, copra, turpentine oil, and fragrant volatile oils, were imported in increased quantities. The chief falling-off was in chemical manures, like sulphate of ammonia and nitrate of soda. Undoubtedly the war has brought the United States and Japan into much closer commercial touch, and many of the conditions obtaining before the war have now disappeared, to the detriment of British trade. It will therefore be more necessary than ever to scrap our old and conservative ideas if we are to succeed in meeting our commercial rivals on even terms.

### The Unjust By-law.

THE Council of the Pharmaceutical Society, on Wednesday, read a second time the draft by-law admitting apothecaries' assistants to the Register of Chemists and Druggists. Mr. W. L. Currie was also re-elected President, so that he may complete the destructive work which, at the bidding of the Privy Council, he commenced in his first year of office. The opposition to the proposed by-law seems to be increasing, and, apparently, as a matter of tactics, the Council has decided to hurry on matters by holding a mid-monthly Council-meeting for the purpose of reading the by-law a third time. After that a hastily convened meeting of the members of the Pharmaceutical Society is to be called, and the by-law will, it is expected, be carried through. Perhaps it is as well to rush through the business, as it is decidedly unpleasant and brings no credit to the members or officials of the Council. It must be remembered also that the Councillors are elected by the members, and they must be assumed to represent their constituents. In the correspondence and discussions which have taken place there is a tendency to overlook the origin of the trouble. We find staunch friends of pharmacy declaring that a bad bargain was made in 1908, and we must reap the consequences with as good grace as possible. This, we think, is a mistaken view if the published records are any guide. The main purpose of the Poisons and Pharmacy Bill, from the Pharmaceutical Society's point of view, was to regulate limited companies which at that time could carry on the business of a chemist and druggist practically uncontrolled, but the object of the Government was to give increased facilities for the sale of agricultural and

horticultural poisons. Clause 4, as originally devised, gave power to the Pharmaceutical Society to draw up by-laws admitting Colonial chemists to the British Registers. The Government inserted a sub-clause permitting by-laws to be made under which "military dispensers" could be registered as chemists and druggists without examination. The apothecaries' assistants thereupon busied themselves to obtain similar recognition, and not without reason, as their qualification as "dispenser to an apothecary" is at least equal to that of a military dispenser. Accordingly in the House of Commons, on December 17, 1908, on the Committee stage of the Bill, Sir Wm. Collins (to quote the official debates)

moved an amendment which he said would bring in a large and worthy section of dispensers, who, if the qualified military dispensers were included in this clause, ought not to be excluded. They had passed an examination not less severe, and in recent legislation these persons had been included. They would be only eligible for registration on certain conditions, therefore he hoped the amendment would be accepted. He believed there was no objection to it.

The amendment referred to was the insertion of the words "or certified assistants to apothecaries under the Apothecaries Act, 1815," after "military dispensers." The Bill thereupon passed its third reading unopposed. The next day in the House of Lords the Earl of Crewe, referring to this amendment, said:

This simply increases to some extent the discretion of the Pharmaceutical Society as to the persons they may recognise under their by-laws. It is considered that without the amendment there would be some hardship.

Lord Crewe's remark about "discretion" should be noted, as it shows that it was not compulsion his Lordship had in view. Unless something is being kept back, it is safe to say that that was the general impression at the time. Mr. C. B. Allen, a short time afterwards, gave to the Western Pharmacists' Association the following account of the transaction:

The power to accept qualified military dispensers or certified assistants under the Apothecaries Act is merely permissive, and inflicts no compulsion upon the Society. The military dispensers were introduced into the Act by the Government, possibly without much consideration as to the difference between a registered chemist and a trained military dispenser, and the assistants under the Apothecaries Act were introduced as an amendment during the last few hours of the passage of the Bill, as a result of the insertion of the reference to military compounders, and were accepted under the compulsion, or the Bill would have been wrecked. When one considers the huge gulf which lies between the training required for a chemist and druggist and that required for a military compounder or an apothecary's assistant it is not too much to assume that the permissive power provided by Section 4 of the Act will remain unexercised.

There is plenty of similar evidence that there was no obligation of any kind placed upon the Pharmaceutical Society to make a by-law that would be unjust to those who have acquired the qualification of chemist and druggist by examination. Another point that has been made public recently is that early this year a series of conferences was held at the Privy Council offices between representatives of the Pharmaceutical Society and the Association of Certified Dispensers, at which the terms of the by-law were arranged. The significant thing about these meetings is that Sir William Collins was the Chairman. The Pharmaceutical Society's official organ calls this "independent chairmanship," forgetful of the fact that Sir William Collins was the representative of the Society of Apothecaries, and, as we have shown above, was the member who introduced the paragraph about apothecaries' assistants into Section 4 (b). This is not our idea of an independent chairman, but it seems to accord with the normal attitude of the Privy Council when any question about chemists is under consideration. The Pharmaceutical Council is now working a mystery "stunt" about the draft by-law. The members, at the annual meeting in May were treated to a private explanation of the reasons why the by-law is to be placed before the members for approval. The main purpose is apparently to appease the wrath of the Privy Council or else that body will hold up any by-laws dealing



with the educational reforms which the Pharmaceutical Council may hereafter desire to introduce. The modern tendency of Civil servants to dictate terms is well known, and if such an impudent example occurred as is feared by the Pharmaceutical Council it would be an excellent one to bring to the notice of the House of Commons. The Pharmaceutical Society has, or had, a Parliamentary Secretary, and he could raise the question on the estimates dealing with the salary of the Lord President and expenses of the Privy Council Office. We suspect, however, that in December 1908 the representatives of the Pharmaceutical Society pledged themselves to make a by-law admitting apothecaries' assistants to the Register of Chemists and Druggists, and that the fulfilment of this engagement is now being demanded. In that case it would be better to make a full confession, and in devising the by-law to ensure the protection of the public by insisting upon evidence that those admitted to the Register are well acquainted with the law governing the storage and sale of poisons. Even then the apothecaries' assistants would get on the Register upon remarkably easy terms when one considers that in 1908 the Apothecaries' Assistants Examination could be passed at eighteen, no preliminary educational test was required, and candidates were only required to have spent six months in the dispensing of prescriptions. "What would happen if the members in general meeting reject the by-law?" is a question we have had put to us several times lately. The most that would happen would be that the evil day would be put off, and there is much virtue in delay.

### The Utilisation of Waste Products.

THE Chemical Waste Products Committee, which was appointed by the Munitions Inventions Committee in March 1918 to make inquiries concerning chemical waste products and to carry out investigations with a view of utilising these substances, has recently issued a report. Judging from what has been accomplished and from what must still be capable of achievement in this line of research, there seems to be good reason for an endorsement of the opinion of the Committee that the unfinished work should be carried to completion. The Committee urges also the foundation of a permanent organisation, constituted as a Chemical Research Department, which would perform a function, for chemical manufacturers, similar to that undertaken, for physicists, by the National Physical Laboratory. If the chemical industry of this country is to be maintained in the high position attained only as a result of serious threats to the whole national life, the support of an institution, on the lines suggested by the Committee, is an indispensable condition. Many of the researches undertaken on behalf of the firms and companies which were invited to submit particulars of their waste products are of interest to pharmacists. Take, for example, the conversion of sphagnum moss (used as a surgical dressing) by hydrolysis into a cattle food. The information collected was handed over to the Food Production Department. The main work of the Committee, however, was the investigation of waste chemical products. Among the first residues to be examined was sulphide of arsenic remaining from the purification of sulphuric acid. Thirty-one firms asked for information on the best method of treating these residues. After experiments, a report, embodying the separation of the sulphide of arsenic, and other impurities, as a sludge by heating to 200° C., was sent to each inquirer. The sulphuric acid is easily syphoned off, and the remaining residues washed and dried. These residues are then suitable for arsenic smelting. Certain waste products containing selenium were examined. These were also obtained from the various sulphuric acid works (from the flue dust of pyrites burners and from the deposits in the Glover tower and sulphuric acid chambers). It was found that the percentage of selenium was negligible in flue dust, while the other two sources yielded from 0.3 to 4 per cent. Selenium, as is pointed out in the report, is being used in the United States in the manufacture of glass, and is

likely to become of more commercial importance in the future. Selenium, moreover, is an important constituent in certain scientific discoveries, which appear to be capable of considerable development. For example, selenium enables a photograph to be transmitted by telegraphy. It has also rendered wireless telephony possible. Researches upon the residues left after the extraction of alumina from bauxite for the manufacture of aluminium are still in progress, and there are hopes that these residues may be converted into useful gas-purification material. Bichromate of soda residues were converted into suitable liquors for the tanning of leather. The residues from acetic anhydride and benzol rectification, calcium sulphate residue, and the recovery of the chemicals used to impregnate certain gas helmets were all investigated, and reports issued. Many other problems were elucidated, but much more remains to be done. On this account there is hope that the Committee will be continued in some permanent form.

### The Government Visitor's Report.

THE Government Visitor's Report on the Examinations held by the Pharmaceutical Society in London during the year ending January 1919 is on this occasion signed by Dr. Arthur P. Luff. Dr. Luff passed the Minor forty-six years ago, but afterwards acquired the medical qualification. He is, we believe, the first Government visitor who has had a knowledge of the drug-trade, and his report is singularly free from the inept remarks which previous Government visitors have thought it their duty to insert. Dr. Luff certifies that "the standard of the [Qualifying] examination has been well maintained, and the aim of the examiners has been to require from candidates evidence of adequate capability to practise as pharmacists." As regards the examiners the visitor states: "I was impressed by the efficient manner in which all the examinations were conducted and by the invariable consideration and courtesy shown by the examiners to the candidates."

### Activated Charcoal.

ONE of the matters which had to be worked out in connection with the box-form respirator against poison-gas was the preparation of charcoal in the most active form. Charcoal was one of the most important components of the respirator, which was designed to absorb not only chlorine, but chloropicrin and phosgene. Most of us remember the steps taken to collect fruit-stones, these being found to yield a dense charcoal; but coconut-shells were also employed in very large quantities for the preparation of charcoal. The best method of making the charcoal was worked out satisfactorily, but it was necessary to oxidise the hydrocarbon impurities so as to render the charcoal more active. This activating process consisted in passing air or steam over the screened charcoal. Exposing the charcoal for one hour to steam at 900° C., gave the best result, the name "dorsite" being applied to the product. We believe that in the United States experiments were made with anthracite coal, in view of the possible shortage of coconut-shells, and that very satisfactory results were obtained. The purpose of this note is to call attention to the method of increasing the activity of charcoal, and to suggest that the product may be found useful in medicine as an absorbent, and in pharmacy as a filtering agent. It is probable also that sugar refiners may find a use for activated charcoal unless the cost is prohibitive.

### Business Changes.

MR. EDWIN NORMAN, Ph.C., High Street, Weston-super-Mare, has acquired the business of Mr. Slater Lupton, chemist and druggist, Bristol Road, who is leaving the town.

MR. WILLIAM EDWARDS (William Edwards & Son), 157 Queen Victoria Street, London, E.C. 4, has from June 1 taken into partnership his two sons, Mr. William L. Edwards and Mr. Harrison S. Edwards. Both the new partners joined up early in the war, and have been demobilised during the past few months. Mr. William L. Edwards retiring as a captain in the Royal West Kents, and Mr. Harrison S. Edwards a captain in the Royal West Surreys.



# Pharmaceutical Society of Great Britain.

## Council-meeting.

A meeting of the Council was held on June 4 at 16 Bloomsbury Square, London, W.C. All the members were present with the exception of Mr. H. Wolff, from whom a letter was read expressing regret for absence. The chair was occupied by Mr. W. L. Currie, whose term of office as President expired on the date of the annual meeting of the Society; and, the meeting being the first that had been held since the re-election of the seven members of the Council who retired, the first business was the election of office-bearers. The minutes of the meeting held on May 21 were read and confirmed.

### MR. W. L. CURRIE RE-ELECTED.

Ballot-papers were distributed to the members, on which they were requested to write the name of one of their number whom they desired to appoint as President for the ensuing year. These were subsequently collected in the box which makes its appearance at the table but once a year. The SECRETARY announced the name given on each paper, and intimated where a blank paper had been returned, and afterwards announced the result of the ballot as follows: Currie, 16; Neathercoat, 1; blank papers, 3. The Secretary formally intimated that Mr. Currie had been re-elected, an announcement which was received with loud applause.

The PRESIDENT said he could only thank the Council very sincerely and heartily for their renewed expression of confidence in himself. He had not thought that he should have commanded such complete confidence after all he had experienced during his past year of office. As a result he now took his re-election as a manifestation that perhaps any effort he had put forward in the interests of the Society had met with some little measure of success.

### MR. P. F. ROWSELL, VICE-PRESIDENT.

The ballot for the Vice-Presidency resulted as follows: Rowsell, 8; Neathercoat (the retiring Vice-President), 7; Deakin, 1; Hines, 1; Hagon, 1; blank papers, 2.

Mr. Neathercoat immediately vacated the Vice-President's chair, and, walking towards Mr. Rowsell's place at the table, waited to occupy it whilst that gentleman acknowledged the honour done him by the Council.

Mr. ROWSELL thanked the members of the Council who had voted for him, and promised to do his utmost to perform satisfactorily the duties of Vice-President during his term of office.

### MR. BILSON RE-ELECTED TREASURER.

The result of the ballot for the election of Treasurer was the re-election of Mr. F. E. Bilson by 19 votes. There was one blank paper.

The PRESIDENT congratulated Mr. Bilson on what was undoubtedly a unanimous re-election, and expressed his confidence that that gentleman would fulfil the duties of the position in a way acceptable to everybody.

The TREASURER, who had a very cordial reception, thanked the Council for the mark of their confidence. He said that when first elected he had some diffidence in accepting the position of Treasurer, for the reason that at the time the finances of the Society were rather in a parlous condition. The present financial position of the Society encouraged him to think that the arrears of the past few years would be speedily picked up, and that at the end of next financial year he would be able to announce that they had quite overtaken and wiped out the deficits of the past. (Hear, hear.)

### REAPPOINTMENT OF OFFICERS.

On the proposal of the PRESIDENT, seconded by the VICE-PRESIDENT, the officers of the Society were re-elected as follows: *Secretary and Registrar*, Sir William S. Glyn-Jones; *Assistant Secretaries*, A. J. Chater and G. A. Mallinson; *Deputy-Registrar*, H. Moon; *Editor*, J. P. Gilmour; *Curator*, E. M. Holmes; *Resident Secretary in Scotland*, J. Rutherford Hill.

Mr. WHITE remarked that he could not allow the opportunity to pass without expressing his own appreciation, and, he thought, also that of members of the Council, for the exceedingly careful and efficient way in which the officers of the Society had coped with the extra work thrown upon them by what all would agree had been a most difficult year. He desired to express his appreciation of the noble and energetic way in which the staff had carried on the work during the past year.

The PRESIDENT, in endorsing Mr. White's expressions of appreciation, said that during his term of office he had had the unusual experience of coming into direct contact with almost every member of the staff, and he had to testify to the excellent work which had been done by everyone, from Sir William Glyn-Jones right down to the humblest in the Society's service. Each and all had done the work very well. He did not know, indeed, how the Secretary got through all his work.

The SECRETARY briefly, and on behalf of the staff, expressed appreciation of the recognition by the Council of their services.

### STANDING ORDERS.

The PRESIDENT formally moved the adoption of the Standing Orders, with the exception of No. 1, which, he explained, related to the hour of the meetings of the Council. That particular Order stipulated eleven as the hour of meeting, but the Council had not been observing that for some time past. The VICE-PRESIDENT seconded the proposition, which was unanimously adopted.

### COMMITTEES.

The PRESIDENT moved that the Committees be re-elected *en bloc*. If any member desired to change from one Committee to another he would, with the concurrence of the Council, be able to do so.

Mr. J. W. DEAKIN, in seconding, suggested that, in future, matters which required consideration in Committee should be sent to the Standing Committees instead of to Special Committees, an unnecessary number of which might, under other conditions, be created.

Mr. SKINNER submitted that no good purpose was served by the appointment to a Committee of members who seldom or never attended its meetings. There were instances where members rarely attended Committee meetings, leaving others to do the donkey work. He regarded it unfair that members appointed to a Committee should dodge its meetings.

Mr. WHITE pointed out that occasionally meetings of Committees overlapped one another so that two, of which one might be a member, were held at one and the same time.

Mr. HINES inquired if the Local Associations Executive Committee appointed on that occasion would remain unaltered as regarded membership.

The SECRETARY replied that hitherto the practice had been to re-elect the Committee till the new one was appointed. The Committee proposed could only be in existence for a very short time and would carry on the work till a new one was appointed.

Mr. CAMPKIN pointed out that the Vice-President was, *ex officio*, a member of all the Committees, and that as a consequence of his appointment to that position Mr. Rowsell would leave a vacancy on the various Committees on which he had previously served.

The PRESIDENT stated that the custom had been for the outgoing Vice-President to take the place on the various Committees vacated by the incoming Vice-President.

Mr. CAMPKIN remarked that this should be clearly understood in the appointment of the Committees.

Mr. NEATHERCOAT intimated that he had no preference for any particular Committees, and would be willing to serve on any to which he might be appointed.

Mr. SKINNER asked whether an arrangement could not be made by which some of the Committees could meet in the middle of the month.

The SECRETARY replied that at a Committee meeting held the previous day it had been suggested that he might consider some such an arrangement, and he hoped to bring the matter up at next meeting of the Council.



Mr. GIFFORD requested that he should be appointed to the Library and House Committee, and this was agreed to.

All the Committees were then re-elected *en bloc*, in accordance with the proposal of the President.

#### VOTE OF THANKS TO MR. NEATHERCOAT.

The PRESIDENT said that all the appointments having been made, it was fitting that some reference should be made to the valuable services rendered to the Council and to the Society by Mr. Neathercoat during his occupancy of the Vice-President's chair. (Hear, hear.) Members would remember that during the absence of Mr. White, who was then President, Mr. Neathercoat filled the chair with credit and dignity. He had done an enormous amount of work in connection with National Health matters, and had travelled all over the country on Society business. He proposed that a vote of thanks to Mr. Neathercoat be passed.

The VICE-PRESIDENT, in seconding, said the work performed by Mr. Neathercoat had been of great benefit not only to the Society but to members individually.

Mr. WHITE, in supporting the proposition, remarked that he could not say anything regarding Mr. Neathercoat's conduct in the chair during his absence, but when he returned he found nothing wrong, and only heard commendation of Mr. Neathercoat's management of things.

Mr. YOUNG also spoke, and said that Mr. Neathercoat could have long since occupied the President's chair if he had so chosen.

Mr. DEAKIN said that as one of the younger element of the Council he had to bear testimony to Mr. Neathercoat's valuable services.

The proposition was unanimously adopted.

Mr. NEATHERCOAT, who had a most cordial reception, acknowledged with sincerity the compliments paid him. In his new position at the Council table he would enjoy a little more freedom, since it frequently happened that one in an official position was tied down to courses of action sometimes in conflict with one's own inclinations and convictions.

#### APOTHECARIES' ASSISTANTS' BY-LAW.

The PRESIDENT intimated that the next business was to read a second time the proposed by-law relating to apothecaries' assistants, the first reading of which, he reminded the Council, took place at the meeting on May 7. He formally moved that the proposed by-law be read a second time.

The SECRETARY read the proposed by-law, and then reported receipt of a number of letters regarding it. Without reading these, he stated that they embodied protests against the second reading of the proposed by-law from the following: Members of the Society at Derby; the Banffshire Pharmaceutical Association; the staff of Boot's, Ltd., in the Manchester area; the Wolverhampton Chemists' Association; the staff of Boot's, Ltd., in the Newcastle area; Brighton and Hove Association of Pharmacists; North Devon Association of Pharmacists; employés engaged in pharmacy in the City of Nottingham; the Amalgamated Society of Pharmacists, Drug and Chemical Workers; Edinburgh District Chemists' Trade Association; North London Pharmacists' Association; Boot's United Chemists', Managers', and Assistants' Association, Sheffield; and Newcastle-upon-Tyne Pharmacists' Association.

Mr. NEATHERCOAT seconded the President's proposal.

The PRESIDENT was about to put it when

Mr. SKINNER rose and remarked that it appeared to him that there was a big hurry in the second reading being put to the meeting, without an opportunity being offered to anyone to oppose it. In presenting his strongest opposition to the proposed by-law he did not propose to say anything more regarding it, except to add that he still felt it incumbent upon him to oppose it strenuously.

Mr. HINES stated that he, too, without further observation at the moment, desired formally to record his opposition to the proposed by-law.

Mr. CAMPKIN said he would take the same position to the proposed by-law that he did on the last occasion. Since then he had been written to and had come in contact with a number of pharmacists outside their own particular body, none of whom expressed any opinion except adverse to the proposed by-law as entirely unfair to them and to others. He could go into many of the reasons they had for holding that opinion, but would refrain, since members of the Council would have an opportunity of seeing them stated in the pharmaceutical Press. Those with whom he had intercourse stated very cogently their position; that it was exceedingly unfair to those who had undergone so much strenuous and difficult work in order to qualify, that others who were neither qualified nor had undergone any examination should be admitted to the Register and receive the same recognition as themselves. A good deal more could be said, but he would content himself on that occasion by recording his vote against the by-law being read a second time.

Mr. JENKIN said that he took it that the second reading was only a formality, and that an opportunity would be given members of the Council to discuss again the by-law before its third reading.

The PRESIDENT agreed that such an opportunity as Mr. Jenkin mentioned would be offered.

The resolution that the proposed by-law be read a second time was then put to the meeting by means of a show of hands. It was agreed to by a large majority, those holding up their hands against it being Messrs. Campkin, Hines, and Skinner.

#### ELECTIONS AND RESTORATIONS.

Thirteen persons were elected members, 119 student-associates, and sixty were restored to the Society. One name was restored to the Register. It was reported that 390 apprentices or students had been registered during the month.

#### FINANCE COMMITTEE.

The financial statement for the month showed that the receipts under the General Fund amounted to 1,561*l.* 3*s.* 11*d.* These included the following: Penalties and costs, 111*l.* 12*s.* 2*d.*; "Journal" and publications, 213*l.* 17*s.* 9*d.*; registration fees, 636*l.* 6*s.*; restoration fee, 2*l.* 2*s.*; school fees, 22*l.* 12*s.*; subscriptions, 468*l.* 6*s.*; examination fees, 66*l.* 3*s.*; rent, 40*l.* 5*s.* Including a balance of 5,233*l.* 19*s.* 10*d.* brought forward from the previous month, the income under the head had amounted to 6,795*l.* 3*s.* 9*d.* From this had to be deducted payments ordered at last meeting of 1,742*l.* 6*s.* 7*d.*, and loan from Benevolent Fund repaid 2,000*l.*, leaving a balance of 3,052*l.* 17*s.* 2*d.* The other balances were: Benevolent Fund (current account), 670*l.* 3*s.* 4*d.*; Benevolent Fund (donation account), 75*l.* 13*s.* 7*d.*; War Auxiliary Benevolent Fund, 1,936*l.* 3*s.* 10*d.*; and Orphan Fund, 150*l.* 4*s.* 2*d.*

The report of the Finance Committee recommended payment of accounts amounting to 1,997*l.* 3*s.* 2*d.*, and that 1,000*l.* now standing to the credit of the General Fund be placed on deposit.

#### LOCAL ASSOCIATIONS COMMITTEE.

The report of the Local Associations Executive Committee was in two parts, the first dated May 6, the second June 3. The first part dealt with matters arising out of the resolutions passed by the Conference. With regard to the suggested scheme for electing the Council and the proposal that powers be sought by legislation for altering the basis of representation for the Council, it was recommended that the matter be referred to the Law Committee. It was suggested that the proposal that the Pharmaceutical local Associations become branches of the Society, and that membership of the local Association should be made conditional upon membership of the Society should be referred to the Organisation Committee for consideration and report. A further recommendation was to the effect that the Secretary be instructed to draft a scheme for submission to the L.A.E. for federating the Associations in the groups indicated in the Organisation Com-



mittee's report. With regard to the proposal that every local Association should embrace in its scheme some means of assembling for educational and advisory purposes the apprentices and unqualified assistants in its area, it was recommended that action be deferred pending developments in connection with the Industrial Council. It was recommended that the desire of the Conference that dispensing under the Venereal Disease Act should be in the hands of chemists as under the National Insurance Acts should be recommended to the Local Government Board. The resolution of the Conference that 25 per cent. should be the guaranteed minimum profit on patent medicines, and that manufacturers should apply to the Inland Revenue Commissioners to have the incidence of the medicine-stamp duty altered, was recommended to be referred to the P.A.T.A., and that the same course should be adopted with regard to the resolution that poisons should not be supplied to unqualified traders. Two other resolutions—(1) that an increase of 50 per cent. on the present dispensing fees be demanded from the National Health Insurance Commissioners for pharmaceutical service for 1920, and (2) that the minimum charge per ingredient should be increased from 0.01*d.* to 1*d.*, owing to the wastage which occurs in measuring out small quantities, were recommended to be referred to the Tariff Sub-Committee. A similar recommendation was made with regard to the resolution passed that the Commissioners be pressed for more chemists' representatives being appointed on Insurance Committees, the Committee expressing the view that this demand might be incorporated with the general conditions attached to terms of service for 1920. The Committee recommended the Council to adopt the method of representation at future Conferences recommended by the Conference, on the basis of one delegate for every fifty men on the panel, with the addition that in the case of Associations only allowed one member to the Conference, if that delegate is a member of the Pharmaceutical Committee, the Secretary should also be allowed to attend at the cost of his own Association, but without power to vote on any resolution. The second part of the report, dated June 3, recommended the adoption of the Organisation Committee's recommendation that each local Association should form an employers' section, with a separate Committee and officers, the Secretary to be the same as that of the Association in every case. With reference to the objection from the Sheffield Pharmacists' Society to the scheme of election for the L.A.E., the Committee recommended that that organisation be informed that the Committee, whilst adhering to their recommendation that only employer-pharmacists should be eligible to vote, recommended that the qualification shall be that a candidate for election must, in the case of the Association Section, be a pharmacist and a member of the Association, and in the case of the Panel Section a pharmacist on the panel or a member of the local Pharmaceutical Committee.

MR. SKINNER expressed himself as rather opposed to the action recommended by the Conference with regard to dispensing under the Venereal Disease Act. It seemed to him as if that body did not know much about the business. He thought the whole matter should come up for a thorough discussion before any approach was made to the Local Government Board. He moved that the matter be referred back to the Committee.

MR. SARGEANT, as Chairman of the L.A.E. Committee, intimated his willingness to have the recommendation referred back, and this was unanimously agreed to.

MR. SKINNER, referring to the recommendation relative to the formation of an employers' section in each Association, stated that his own Association adopted what he regarded the common-sense line of having a joint secretary for both sections of an Association.

THE SECRETARY pointed out that under the arrangement recommended, members of an employers' section could appoint as secretary whomsoever they chose. What the Committee were anxious about was that where there were two secretaries in connection with an Association—one representing each of the employers' and employees' sections—an arrangement would be made whereby no trouble

would arise from communications reaching the wrong secretary.

MR. PARRY stated that in his Association the employers' section had its own secretary, and that the opinion of the members was that the section should be a thing distinct and apart from the Association. "When," he said, "the new L.A.E. is elected, I take it that it will not report to this Council any longer, but will be a separate body." (Cries of "No.") "Well, you will find very quickly that it will be." (Laughter.)

MR. SARGEANT, referring to the recommendation as to the manner in which the L.A.E. should be elected, said that one of the points was that there must be a pharmacist on the panel or a member of the local Pharmaceutical Committee among the representatives. The following words had been added: "A member of the local Pharmaceutical Committee, whether a pharmacist on the panel or not, will be eligible for election to the L.A.E."

MR. HINES: Do I take the point to mean that an assistant can be a member of the L.A.E.?

MR. SARGEANT: Yes, if the assistant be a member of the local Pharmaceutical Committee, or if the Committee appoint an assistant as secretary.

MR. HINES remarked that the L.A.E. represented employers.

MR. SARGEANT remarked that the Committee or Council had no right to restrict the local Associations as to who should represent them on the L.A.E., so long as the representatives fulfilled the conditions stipulated. Local Associations should not be interfered with in this respect.

The report was then unanimously adopted.

#### MINISTRY OF HEALTH COMMITTEE.

The Ministry of Health Committee submitted a report and recommended:

"That, in view of the statement made by the Chairman of the Ministry of Health Committee at the Conference, that Dr. Addison had decided to give representation to pharmacists on one of the Advisory Committees, and that that Committee would probably be the one on which medical men would be represented, the Committee consider that the resolutions of the Conference are met."

The Committee recommended that the question of dispensing clinics be deferred until the next meeting of the Committee.

The report was then adopted.

This was all the public business.

#### North British Branch.

A meeting of the Executive of the North British Branch was held at 36 York Place, Edinburgh, on May 28, Mr. William Giles in the Chair. There were present: Messrs. Arthur, Cowie, A. Currie, Drummond, Fisher, Forbes, Giles, A. Gilmour, D. Gilmour, Guthrie, Jack, McKenzie, McMillan, Murray, Nesbit, Ramsay, and Storrar.

The chief purpose of the meeting was to consider a proposal that the Secretary of the Society, Sir William Glyn-Jones, should visit Scotland and address district meetings in connection with matters relating to the Pharmaceutical Society and its relationship to local organisation and to questions arising in connection with the setting up of a Scottish District National Drug Trade Industrial Council.

After consideration it was unanimously resolved that the Executive should meet the Secretary of the Society in Edinburgh on Tuesday, June 10, and that the following district meetings should also be attended by the Secretary, namely: Glasgow, Tuesday, June 10, 7.30 p.m.; Edinburgh, Wednesday, June 11, 7.30 p.m.; Aberdeen, Thursday, June 12, 8.15 p.m.; and Dundee, Friday, June 13, at 3 p.m. It was also arranged to meet Messrs. Deakin, Rowsell and Sargeant, members of Council, on June 10 for the purpose of discussing details in adjusting the linking up of the scheme of local organisation in Scotland with the scheme of local organisation in England and Wales as presented by a deputation from the Executive at the Local Associations Conference in London on April 23.



## Association Affairs.

**Association of Certificated Dispensers.**—The annual meeting was held in the Court Room of the Apothecaries' Hall on May 29, Mr. Montagu G. Smith, F.C.S., presiding. The Secretary's report for the year, which was ultimately adopted, gave rise to considerable discussion, in consequence of the failure of the Society of Apothecaries effectually to remedy the present indefinite position of its dispensers. A number of members were strongly in favour of the extinction of the examination, the interests of existing certificate holders to be duly safeguarded. It was eventually agreed that a resolution be framed, demanding the entire question to be seriously considered by a Committee of the Apothecaries' Society. The meeting also declared that a clerk to the Society should now give whole-time service to the Society. This it was felt to be possible, having regard to the large revenue now accruing to the Society in the shape of examination fees. The next portion of the report related to the draft by-law, formulated by the Pharmaceutical Society of Great Britain, which came in for much criticism, chiefly by reason of its extremely limited character. It was stated, however, that the Association had battled for a more comprehensive by-law, and finally had been driven to accept the by-law in its present form, or revert to the previous condition of deadlock. The balance-sheet was submitted showing a sum of 85*l.* 8*s.* 10½*d.* remaining to credit. The election of officers for the year was then proceeded with.

**East Anglia Federation.**—A meeting of the East Anglia Federation of Pharmaceutical Associations was held on May 29 at the Two Bears Hotel, Yarmouth. The President (Mr. C. Smalley, Ipswich) said it was the first visit of the Federation to Yarmouth, and they wished their Yarmouth brethren all the prosperity that had been withheld from them during the past years of war. Mr. G. A. Mallinson (Assistant Secretary to the Pharmaceutical Society) then gave an address on

### INDUSTRIAL COUNCIL ORGANISATION.

He stated that the commencement of the movement, so far as pharmacy was concerned, dated back to a British pharmacy conference addressed by Mr. C. A. Hill (The British Drug Houses, Ltd.), who suggested an organisation for pharmacy, covering both wholesale and retail. Pharmacy representatives had left the Distributive Trades Board Conference firmly convinced that they must get pharmacy out of the Distributive Trades Board. Sir William Glynn-Jones, who acted as their representative, was made spokesman on the employers' side. When the Minister reported at the next meeting of the Conference he expressly excluded the sale and compounding of poisons by chemists from the operation of any Trade Board. Since then they had got a general understanding that he would keep his hands off pharmacy, provided they got together an organisation. Mr. Mallinson next explained what an Industrial Council was, and how Industrial Councils differed from Trade Boards. He had been asked how an Industrial Council could bring a refractory retailer to book. The secret of the Proprietary Articles Trade Association was the tripartite system under which it works—retailer, distributor, manufacturer. Because distributors and manufacturers have withheld supplies from a retailer they have been able to make him toe the line when he has given trouble. They would get the same conditions in an Industrial Council. If an employer would not do this or that, the Union could call his men out. In the case of a single shopman who does not employ assistants the wholesalers could hold up his supplies. An Industrial Council would concentrate control of pharmacy in a way it never has been before. Used wisely it would be a tremendous power, and it was the thing for pharmacy. If there were half-a-dozen unions represented on the Industrial Council they could call upon the Labour members to get anything they want. Labour members do not care anything about an Industrial Council, but they do care about the Unions that send them to Parliament. With Industrial Councils pharmacists would get rid of a good deal of the opposition they had encountered in the past. The position of their Society would not be damaged, and it would continue to be the representative retail body. He hoped with Industrial Councils they would be able to diminish the evils of individualism. Something could be done in regard to closing, for pharmacists needed more recreation. The whole trade was behind the movement. The Unions naturally thought they would get something out of it for the employes. There was this advantage about Industrial Councils: both sides have to agree upon any proposal put forward before it can take effect. On a Trade Board it is otherwise, and the three independent members can, in the event of a dead-

lock between the two sides, decide. Given proper representation, they felt the interests of employers were perfectly safe. They had to face the possibility of paying more to assistants than had been paid in the past, and possibly more than was paid during the war. Both sides are mutually pledged to help one another; employes' representatives would help employers to get more money if it was necessary to pay employes more. Industrial Councils therefore offered what they needed most as compared with any other form of organisation, in view of unsettled labour conditions. In reply to the President, Mr. Mallinson said all grades must be represented on an Industrial Council. Multiple shops and big departmental stores, if they had special interests, must organise themselves as such; but, if they have distinct interests in pharmacy, they may claim representation on its separate Industrial Council. This may cause more distinct segregation of businesses than in the past. There may be clashing over hours of business in regard to National Health Insurance work. On an Industrial Council there would be representatives of trade unions who are linked up with friendly societies, and friendly societies "boss" Insurance Committees. If this did not help them to get earlier closing, he did not know what would. That would be the line of attack, and Industrial Councils must come, unless they were going to leave control of their business to the Government. Mr. P. Robinson (Norwich) asked what would happen in the event of a deadlock. Mr. Mallinson said proposals must be agreed or there was no chance of their passing. Mr. Mallinson, in reply to another question, said there would be a separate schedule for women workers in the retail trade. He could not understand any difference being made where women were qualified. There is no case for paying them less than men. Mr. King said women did more and were more careful. In reply to Mr. Gamble (Bury), who asked about discipline, Mr. Mallinson said a closing order was one way out, though hitherto they had resisted the application of the Closing Order to pharmacy. It would be within the compass of an Industrial Council if a man did not toe the line. There were no penalties, and fines could not be levied. In East Anglia, where it is a retail problem particularly, there would probably be an East Anglian District Industrial Council. In large cities, such as Manchester or Liverpool, it might be limited to a single city.—With regard to the Local Associations Executive election, Mr. Robinson said it would be better to concentrate on one candidate, and he moved that the President be nominated, and this was agreed to. A collection for the Pharmaceutical Benevolent Fund realised the sum of 1*l.* 14*s.*

### REPRESENTATION ON LOCAL BODIES.

Mr. P. Robinson (Norwich), speaking on the necessity for more representation on local bodies, such as Town and County Councils, Boards of Guardians, and Insurance Committees, said chemists were largely concerned in public health matters, and the presence of a representative would enable them to secure dispensing. On Welfare Committees they could see that the supply of infant foods went through the right channel. They could see that qualified men were employed in asylum and infirmary dispensaries. It would also be useful if there was a chemist on Food and Drug Committees. Public work took up some time and cost a little money, but it gave them a say in many things, and men of education and business ability were sought for when vacancies occurred. The President said it is imperative that some chemists should be on public bodies when there were far-reaching schemes of the Ministry of Health coming forward. Mr. P. R. Hill (Yarmouth) said that on the Yarmouth Town Council one chemist is chairman of the Health Committee, one is on the Board of Guardians, and three are on the Insurance Committee. Mr. J. Evans (Cambridge) was to have called attention to the need for raising prices, but in his absence Mr. Barker (Cambridge) read his paper for him. In it he dealt with the great increase in establishment charges, labour, cost of materials, drugs, bottles, carriage, and corks. A universal system is needed which the whole trade can adopt. The penny trade must go, and he suggested a minimum of 3*d.* In regard to poisons and poisonous articles, nothing that required registration should be retailed under 1*s.* Sick-room requisites and all dressings should show a clear profit of 50 per cent.; toilet articles and perfumes should carry a larger profit, and proprietary articles be sold at face values to show 25 per cent. on cost. The President said prescriptions had always been their *bête noire*. It paid far better to sell patent medicines. Mr. C. T. Allen (*C. & D.*, May 3, p. 53) put overhead charges at 6*d.* per prescription. They had to keep a large stock to fill prescriptions, while the stock of patent medicines could be turned over two or three times. The members agreed as to the desirability of uniformity in price for prescriptions. Mr. Robinson said



he did not charge according to ingredients, unless these are very expensive. He would take pre-war charges as the basis and put on 50 per cent. If an expensive tincture were called for he imposed the price for that as well. Mr. Collin (Norwich) said 33½ per cent. from the wholesale packers was not enough now, and they should put that to the commercial gentlemen when they came round.

#### C.D.A. INSURANCE PREMIUMS.

Peterborough delegates had given notice of a resolution disapproving the proposed action of the Chemists' Defence Association in raising the premium from 10s. 6d. to 15s. of their insurance policy to cover veterinary risks.

The President said this would be deferred, but the Secretary would write complaining of the dilatoriness with which the C.D.A. had dealt with the question, and suggesting that the increase should be not more than 6d. or 1s. An invitation to Peterborough for the next meeting was accepted. The admission of apothecaries' assistants to the Register was then considered, and, after hearing Mr. Mallinson's explanation, the following resolution was carried:

That this meeting of East Anglia pharmacists supports the action of the Pharmaceutical Society in connection with the draft by-law.

**Edinburgh.**—The annual meeting of the Edinburgh Chemists' Trade Association was held in the Pharmaceutical Society's House, 36 York Place, Edinburgh, on Friday, May 30, Mr. James Dick (Chairman) presiding. Mr. W. W. Brown (Hon. Secretary) reported correspondence with the Town Clerk with reference to the delay by the Secretary for Scotland in sanctioning the Early Closing Order. The Town Clerk had again communicated with the Secretary with a view to the order being brought into operation on an early date. Mr. J. B. Mitchell (Treasurer) submitted the financial statement, which indicated a record membership of 118, and a balance in favour of the Association of 24l. 19s. 2½d. The Hon. Secretary (Mr. W. W. Brown) submitted the Secretarial report. The Committee regretted the long delay in the coming into operation of the Early Closing Order. The setting up of the Scottish Pharmaceutical Federation (*C. & D.*, May 17, p. 52) had been considered in consultation with a Committee of the Glasgow Association and with the Executive of the North British Branch, and the membership of the Association had now reached a high point. Office-bearers were then elected (for session 1919-20) as follows: *Chairman*, Mr. W. W. Brown; *Vice-Chairman*, Mr. J. Muir; *Hon. Secretary*, Mr. George Hall, 255 Dalry Road, Edinburgh; *Hon. Assistant Secretary*, Mr. A. J. Clark; *Treasurer*, Mr. J. H. Tainsh; *Members of Committee*, Messrs. D. B. Richardson, J. Finlay, Kelly, Nisbet, Noble, Nightingale, Mitchell, Adamson, and Andrews. Messrs. W. W. Brown and J. Muir were nominated by the Association as candidates for the Executive of the North British Branch. Mr. Nightingale asked what action had been taken with reference to the communication from doctors as to the supply of emergency medicines. It was reported that a meeting with the doctors had taken place, and the following motion was adopted:

"That a list of chemists, with addresses on their doors, be sent to the doctors; and that an additional night fee always be charged for dispensing urgent prescriptions which should be marked '*statim*.'"

The resolution was remitted to the Committee. On the motion of the Treasurer it was agreed to give a donation of 2l. 2s. to the Benevolent Fund of the Pharmaceutical Society and 1l. 1s. to the Orphan Fund.

**Gloucestershire.**—The Gloucestershire Pharmacists' Association has sent a letter to the Pharmaceutical Society in regard to the proposed new by-law admitting apothecaries' assistants to the Register of Chemists and Druggists. The letter states that the evidence placed before them in support of such a course is inadequate and vague, and asks that the Council of the Pharmaceutical Society should acquaint the Association with all the facts of the position at present in order that it may form a more mature opinion on the matter.

**Leeds.**—The annual meeting of the Leeds Chemists' Association took place on May 28, Mr. N. N. Armitage (President) presiding. The rules were altered to provide that the whole of the officers should be subject to election annually, instead of the retiring President, as hitherto, automatically becoming a Vice-President. The Hon. Secretary (Mr. E. E. Haslegrave) submitted his annual report, which showed a membership of 103 ordinary, three honorary, and the President and Secretary of the Pharmaceutical Society as *ex-officio* members. The syllabus of the session had included addresses by the President of the Society (Mr. Currie), the Secretary (Sir William Glyn-Jones), Mr. J. P. Gilmour (Editor of the "*Pharmaceutical Journal*"), Mr.

Woolley (Editor of *THE CHEMIST AND DRUGGIST*), and Messrs. Keall, Skinner, and F. Pilkington Sargeant (members of the Pharmaceutical Council). The Association's contribution to the War Auxiliary Benevolent Fund since the last annual meeting was 88l. 9s. 3d., making a total of 295l. 9s. 3d. from the Association. Most of the resolutions and amendments which the Leeds delegates at the Local Associations Executive Conference had been instructed to support were adopted. The President commented on the need for improved attendances at meetings. Mr. H. O. Eaton (Treasurer) submitted his financial statement, showing that the year's income was 41l. 18s. 3d., but expenditure has been so heavy, largely due to the increased cost of printing, that there is now a balance of only 7l. 3s. 5d. He mentioned that the balance two years ago was over 40l. The Association, however, during the past year has granted 2l. 6s. 6d. to the Pricing Committee to meet a little deficiency in its working, and a new feature has been the payment of 5l. 17s. 6d. towards the expenses incurred by speakers from a distance. Mr. Hayes (Secretary of the Pricing Committee) submitted a report of the year's work of that body, showing total subscriptions for the monthly price-lists amounting to 12l. 7s. 6d., including the Association's grant of 2l. 6s. 6d. to make up the deficiency. The President held that the report is most satisfactory. Mr. Kirk suggested that something might be saved by issuing monthly only a brief list of actual changes. Mr. Hayes replied that the main list is kept standing in type, and the new setting of a supplementary list of changes only would cost quite as much, if not more. The Council recommended that in future the Pricing Committee, instead of being appointed by the Council, should be elected by the general membership at the annual meeting, and, wherever possible, on a territorial basis. This recommendation was adopted, and the following gentlemen were appointed as the new Committee: Messrs. R. Milestone, H. Gilleghan, and A. Winterbottom (Roundhay and Harehills), H. Grayson (Chapeltown), Brentnall (Meanwood), J. Hayes and J. H. Beacock (City), Mortimer (Dewsbury Road), W. D. Pollitt (Headingley and Woodhouse), J. R. Kirk (Hunslet), and Sheard (Morley), the President and Secretary being *ex-officio* members. Mr. Sheard raised a question as to whether company shops cannot be brought into the Pricing Committee's scheme officially, so as to work in harmony with the private chemists in matters of retail prices. On the suggestion of the President, this point was left to the consideration of the new Committee. The following officers were elected: *President*, Mr. N. N. Armitage (for the fourth year); *Vice-Presidents*, Messrs. J. H. Beacock (re-elected) and H. Gilleghan; *Treasurer*, Mr. H. O. Eaton (re-elected); *Hon. Secretary*, Mr. E. E. Haslegrave (re-elected); *Council*, Messrs. J. R. Kirk, J. Lancaster, J. Pendlebury, W. D. Pollitt, A. Rothstein, H. C. Roberts, F. Pilkington Sargeant, R. G. Shaw, and Sheard. The retiring officers were thanked by resolution. Messrs. Sargeant, Roberts, Hayes, Winterbottom, Beacock, Haslegrave, Armitage, Rothstein, Kirk, and Mortimer were nominated for the forthcoming election of members of the local Pharmaceutical Committee. The Benevolent Fund collecting-box was made up to 5l. 10s.

**London (N.).**—The annual meeting of the North London Pharmacists' Association was held on May 28 at the Progressive Pharmacy Club, the President in the chair. Attention was called to the proposed by-law of the Pharmaceutical Council and the following resolution passed:

"That this meeting of the North London Association desires to record its protest against the new by-law which will have the effect of admitting certain assistant dispensers to the Register of Chemists and Druggists without examination, and requests the Secretary to forward the resolution to the Pharmaceutical Council and to the Privy Council, on the ground that it is not in the interests of public safety that there should be any weakening of the qualification."

The rules of the Association were then discussed to consider what modification was necessary for improved organization. The chief modifications decided upon were: The name should be changed to the North London Pharmaceutical Association; that pharmacists, proprietor and non-proprietor, assistants, and apprentices should be admitted; the Committee to consist of sixteen, eight from the employers' side and eight from the employees, each side to elect its own panel; each side to elect its own Secretary, who shall act in a joint capacity; all members to be elected on a form of membership drawn up by their respective sides; due representation on any central council or district council to be provided for through the various affiliations. The officers for the ensuing year are as follows: *President*, Mr. C. W. Andrew; *Vice-President*, Mr. A. H. Jenkin; *Treasurer*, Mr. C. W. Matthews; *Joint Secretaries*, Messrs. Skinner and Weiss; *Auditor*, Mr. C. T. Bennett; *Employers' Panel*, Messrs. Hearle, Anderson, Honiatt, Carter, Felton, Walters,



Downing, and Barton; *Employés' Panel*, Messrs. Webster, Todd, Bowie, Mumford, Wathen, Humphrey, and two others from the larger companies. It was recommended that the members of the London County Executive should be Messrs. Skinner, Jenkin, Hearle, and Matthews, and that no change is necessary in the representation on the Pharmaceutical Committees. The Social Committee will consist of Messrs. Mumford, Carter, Honiatt, and Bowie. The balance-sheet showed a small balance in hand. A Committee of Ways and Means for opposition to the suggested by-law of the Society decided that

"This meeting approves of the inception of a petition of rights against the proposed by-law."

**London (S.W.).**—The annual general meeting of the South-West London Pharmacists' Association was held on May 27, the President (Mr. J. Humphrey) in the chair. The annual report, showing a satisfactory balance in hand, was adopted. The following officers were elected for the ensuing year: *President*, Mr. John Humphrey; *Vice-Presidents*, Miss A. T. Borrowman and Mr. G. J. Barratt; *Secretary*, Mr. E. Skues; *Treasurer*, Mr. C. Yeoman. There was a keenly contested election for the remaining members of Council, the following being appointed: Miss Buchanan, Mrs. Freke, Messrs. Atkins, Boyes, Brook, Davies, Fairlee, Garton, Glew, Goy, Ingham, Keall, Mason, Monaghan, Thornton, and Wells. A letter had been received inviting the Association to select two representatives for the Advisory Committee of the Battersea Polytechnic Institute, with a view to arranging additional classes for pharmaceutical students, and to bringing the syllabus into line with the new requirements for the Qualifying examination. Mr. J. Humphrey and Miss Borrowman were appointed.

**Merthyr Tydfil.**—The Advisory Committee appointed at the meeting of the South Wales Federation on May 22 (*C. & D.*, May 31, p. 63) to act in conjunction with Major E. Saville Peck has lost no time in getting to work. A further Committee has been appointed, consisting of Messrs. Benson Harries, Leo Joseph, E. A. Johnson, H. M. Lloyd, and J. Gilbertson, to meet the Technical Committee at Cardiff.

**Nottingham.**—At the annual meeting of the Nottingham Pharmaceutical Association, held on May 21, Mr. A. Eberlin was presented with a silver writing-set from the members, as a token of their appreciation of his services during the last four years. The presentation was made by Mr. S. H. Plattin. Mr. A. E. Beilby was re-elected *President*, Mr. H. C. Prince, *Vice-President*, Mr. H. P. Middleton, *Treasurer*, and Mr. A. Norweb and Mr. E. E. H. Turton, *Hon. Secretaries*.

**Stafford.**—A Committee meeting of the Staffordshire Pharmacists' Association was held on May 29, when the question of an Industrial Council was discussed. It was pointed out that Staffordshire, Herefordshire, Shropshire, Warwickshire, Worcestershire, and Wales would form one area, and that three representatives only would be allowed for the whole of the area. The Secretary was asked to find out what the other counties were proposing as to representatives. In order to revive active interest in association work it was decided to arrange for a meeting at Wolverhampton, to be followed by one at Stoke. The size of the county and the grouping of the population at the extreme ends militate against large meetings at Stafford. Throughout the war all essential work had been carried on by the Secretary and the Committee, and much had been done. It was hoped that the new proposal would result in increased attendance. It was decided to appoint Mr. Mallinson as Returning Officer for the forthcoming election of Committee for the county. A report of the proceedings at the Conference of Local Associations was given by the delegates (Messrs. Trotter and Fowke). The Treasurer of the War Auxiliary Benevolent Fund (Mr. Mellor) reported that the amount received to date was 119*l.* 19*s.* 6*d.*

**West Ham.**—A meeting of the West Ham Association of Pharmacists was held recently, when reference was made by Mr. Mays to the meeting of the North London Pharmacists' Association and the question of the formation of an Industrial Council for Pharmacy discussed. The objection to considering the Association as though it consisted entirely of employers was emphasised by several members. Mr. Rowsell then gave an address on *Price Protection*, and outlined the early work of the Proprietary Articles Trade Association, contrasting fair profit with face values. Mr. Rowsell warned his hearers against offers of newly introduced articles, which often, with cash discount, window-show allowance, and bonus, gave only the same profit as the goods should bear at all times. Attention was drawn to a number of unprotected popular lines. The value of the Chemists' Defence Association was dwelt upon, and the recent Birmingham case adduced as a good reason for

increased support (*C. & D.*, May 10, p. 56). Mr. Rowsell then replied to a number of questions.

**Wolverhampton.**—At a well-attended meeting of the Wolverhampton Chemists' Association, held on May 23, under the chairmanship of the President (Mr. C. M. Warner), it was announced that "Rep. Mist." is discontinued from May 31. A discussion on the May meeting of the Council of the Pharmaceutical Society took place, and the following resolutions were adopted:

(1) That the Association protest against holders of the Apothecaries' Hall certificates being placed on the Pharmaceutical Register; and (2) that Recommendation No. 3 of the Local Associations Executive Conference, relating to rules of Associations, be deleted.

The Secretary (Councillor H. Coleman) was appointed a member of the "After Care (Tuberculosis) Committee," and was instructed to write to the four Parliamentary representatives, the Chancellor of the Exchequer, and to the Commissioners of Customs and Excise, supporting the alterations of the incidence of medicine-stamp duty. Congratulations were extended to Mr. and Mrs. H. L. Warner (members of the Association) on the occasion of their marriage; to Sir William Glyn-Jones; and to Councillor F. A. Wilcock on his being elected a churchwarden of St. Peter's Church. A Sub-Committee was appointed to revive the annual picnic. Miss M. Lewis was admitted to membership. Mr. Trotter (delegate for Staffordshire to the L.A.E. Conference) then gave his impressions of the Conference.

## Orthosiphon Stamineus.

In the list of drugs placed under the control of the Government Bureau in Amsterdam under the direction of Mr. J. Jonkman, for pharmaceutical use (*C. & D.*, April 26, p. 73), one article mentioned is probably not familiar to British pharmacists—viz., orthosiphon-leaves. The leaves of this labiate plant were first imported from Java into Europe as a remedy for diabetes in 1886, and were described in the pharmaceutical papers at the time, but have apparently never been utilised in this country. That the drug is esteemed of importance and believed to possess medicinal value, and that it is still used in Holland, is evident from the restriction placed on its exportation. It was examined by Dr. L. van Itallie, who found it to contain a non-nitrogenous glucoside and a small quantity of volatile oil. This glucoside, to which the name of "orthosiphonin" was given, has a bitter taste, followed by sweetness. It is freely soluble in absolute alcohol, but less so in weak alcohol, and is not precipitated by tannin. Probably it is held in aqueous solution in the leaves by some other body present in them. But as it is widely distributed in the East, in British Dominions and Protectorates, etc., the restriction will not affect this country. It occurs in Assam, Burmah, Martaban, the Deccan, the Anamalai Hills, Nicobar Islands, Malaya, and in Queensland, where it has been reported from Cape York, Port Dennison, Burdekin River, and Rockingham Bay, so that there should be no difficulty in procuring it or experimenting with it in the disease referred to. The plant is illustrated in the "Botanical Magazine," Lab. 5,835, but a description of its appearance may be useful, as this work is both rare and expensive. The plant is a loosely-branched perennial herb 1 to 3 feet high, with stalked ovate, often acuminate opposite leaves, 1 to 2 inches long, and more or less irregularly and coarsely toothed, and has a slight hoary pubescence. The flowers form a rather short terminal inflorescence, and the flowers have an elongated corolla tube, long projecting stamens (like those of *Clerodendron*) two or three times as long as the corolla tube, with very small anthers. The calyx attains  $\frac{1}{2}$  inch in length, the upper lobe being ovate and obtuse, the side lobes rather shorter and acute, with a short point, and the lower produced into long subulate points. The leaves are pale green, with a purplish stalk and veins, and prominent oil gland on both sides. On the Continent the herb is met with in the form of rolled leaves like tea. A tincture is prepared with 1 part of leaves to 10 of rectified spirit, macerated for ten days, and then expressed. An extract is prepared by pouring boiling water on the leaves, macerating for twenty-four hours, expressing the liquid, and again macerating the leaves with half the quantity of water and concentrating the liquors. A kilo. of leaves yields 195 grams of extract.

**THE TRUSS SOCIETY.**—At the 109th annual festival of the City of London Truss Society, held recently, it was announced that the subscriptions and donations collected in aid of the Society amounted to 827*l.* 8*s.*



## Westminster Wisdom.

By the "C. & D." Parliamentary Representative

### SILVERTOWN EXPLOSION.

Mr. J. Jones, on June 2, asked the Parliamentary Secretary to the Ministry of Munitions if he can state the number of valuers who were engaged by the Ministry in connection with the valuation of property claims arising out of the recent Silvertown explosion; and if he can state the amount paid in fees to such valuers.

Mr. Kellaway replied: The number of professional valuers engaged by the Ministry of Munitions in the assessment of property claims arising out of the Silvertown explosion is twenty-eight, and the amount paid in fees is 23,025/.

### APOTHECARIES' ASSISTANTS.

Sir Harry Brittain, on June 4, asked the Lord Privy Seal whether the terms of the draft by-law made under Section 4 (b) of the Poisons and Pharmacy Act, 1908, which the Pharmaceutical Society is considering, have been agreed upon in conjunction with the Privy Council; and will he state the terms of the by-law and give a list of the public institutions which it is proposed to recognise as institutions in which dispensing experience can be obtained by the apothecaries' assistants whom it is proposed to register as chemists and druggists under the terms of the by-law.

Mr. Bonar Law replied that he had nothing to add to the answer which he gave on May 27 (*C. & D.*, May 31, p. 52).

### MINISTRY OF HEALTH BILL.

The disagreement between the House of Lords and the House of Commons regarding the number of Parliamentary Secretaries for the Ministries of Health ended on June 2, when the Commons gave way. The sub-section which provided that two Secretaries of the Ministry could sit as members of the House of Commons at the same time was accordingly left out of the Bill, which received the Royal Assent on June 3.

The Scottish Board of Health Bill received the Royal Assent at the same time.

### IMPORT OF JAPANESE BRUSHES.

Replying to further questions regarding the importation of brushes from Japan and Italy, the President of the Board of Trade stated in the House of Commons on June 2 that in the spring of 1918 a concession was made to certain classes of goods of Italian origin, and, in view of an undertaking previously given to the Japanese Government, these concessions were extended to similar classes of goods of Japanese origin. The concession originally provided for the unrestricted importation of brushes, but in February of this year it was announced to the Japanese Government that unrestricted licensing would have to be replaced by the issue of licences to an amount not exceeding the imports of the year 1916. The question is at present under consideration by the Import Consultative Council.

### PROPRIETARY MEDICINE STAMPS.

Mr. Ronald McNeill is to ask the Chancellor of the Exchequer if he is aware of the inconvenience caused to pharmacists and the public by the incidence of the stamp duty on proprietary medicines since 1915, when the stamp values were doubled, whilst the values coverable by the stamps were unaltered, which increase has added greatly to the inconvenience of the insufficient graduation of the duty; whether he is aware that manufacturers of these dutiable articles desire to establish a series of intermediate values if the stamp duty were correspondingly graduated; whether, in order to meet the convenience of the market, he will rearrange the incidence of the duty so that values of 1s. shall bear a stamp of 3d., values of 1s. 4d. a stamp of 4d., values of 1s. 8d. a stamp of 5d., values of 2s. a stamp of 6d., and so on, increasing the value of the article by 4d. and of the stamp by 1d. for each increment; whether such a readjustment, which would enable manufacturers to rearrange their charges without unduly increasing prices, could be made without loss of revenue; and, if so, whether he will propose an amendment of the Finance Bill to give effect to it.

### SULPHATE OF AMMONIA EXPORT LICENCES.

Sir Albion Richardson, on June 2, asked the Parliamentary Secretary to the Board of Agriculture whether he is aware that an arrangement made by his Department whereby makers of sulphate of ammonia were required to supply this fertiliser for home consumption at a price considerably below its market value on the understanding that the balance not required for such purpose should be allowed to be exported is not being carried out; whether he is aware that the South Metropolitan Gas Co., having fully

met all the demands made upon it for the home market, now have large and daily increasing stocks, licences for the export of which are obtainable only through the agency of a combination of trade competitors formed with the approval and receiving the support of his Department; whether the refusal to give licences without the consent of this agency is inconsistent with the undertaking given by his Department and a breach of faith with the South Metropolitan Gas Co.; whether the encouragement of the combination referred to is opposed to public policy and calculated to create a monopoly that will prove prejudicial to home users of sulphate of ammonia when the present system of control is removed; and whether he will take such steps as may be necessary to ensure that the company's applications for licences shall be as favourably considered as those made by the members of the combination.

Sir A. Boscawen replied: The arrangement referred to in this question is in continuation of one which has been in operation since the summer of 1917. Continued supervision of the export of sulphate of ammonia is essential if sufficient is to be retained in this country for the urgent needs of home agriculture, and the Board see no reason for changing a method which has worked well, is perfectly equitable to all makers, and has been accepted unanimously by the association representing them. So far as the Board are aware the South Metropolitan Gas Co. is the only firm of makers of sulphate of ammonia which has raised any objection. The Board have written to that company expressing their willingness that licences should be granted on the same terms as to the rest of the makers for the export of the appropriate proportion of the company's product, but it would not be in the public interest to make exceptional arrangements in their case. The Board do not regard the conditions imposed on the issue of export licences as in any way detrimental to the interests, financial or otherwise, of this company. As a result of the arrangements with the main body of manufacturers the market price for export has been stabilised in the interests of all manufacturers of sulphate of ammonia, and the fact that this fertiliser is being supplied during the next four months to home agriculturists at a price below its cost of production indicates that home users, so far from being prejudiced by the arrangements, have been considerably benefited.

## General Medical Council.

The sittings of the General Medical Council were continued on May 29 and 30, much time being taken up with the further consideration of the case of W. Herbert Fawcett (*C. & D.*, May 31, p. 61). On May 30 the President announced that the Council had decided to erase Dr. Fawcett's name from the Medical Register on the ground that he has been guilty of infamous conduct in a professional respect.

### PHARMACOPEIA REPORT.

At the meeting of the Council on May 31, Dr. Norman Walker submitted the report of the Pharmacopœia Committee. It stated that the number of copies of the British Pharmacopœia, 1914, sold by the publishers between November 23, 1918, and May 24, 1919, was 1,275. The number sold in the year ended May 21, 1919, was therefore 2,787. The total number sold since the date of publication was 33,011. Of the third issue of 5,000 copies under 2,000 remain in stock. It would be expedient to order from the printers, an additional issue of 5,000 copies, as the demand for the Pharmacopœia, both in this country and abroad, continued to be active. The opportunity would be taken to make a correction in the last line of the last page of the text, concerning the ash-limit of ginger. The limit, as it stands, is ambiguously expressed. The Government authorities concerned having informed the Council that the supplies of sugar, glycerin, fats, and oils were now sufficient for the uses of pharmacy, the Executive Committee, after communication with that Committee, took the necessary legal steps for the withdrawal of the temporary alterations in the Pharmacopœia sanctioned in 1917-18 on account of the prevailing conditions.

The report was approved, and directed to be entered on the minutes.

CO-OPERATIVE BEE-KEEPING.—A start has been made in co-operative bee-keeping in Buckinghamshire, nearly 100 30s. shares having been taken up by cottagers and others.



# Japanese Imports and Exports.

A Tabular Statement from Official Sources of the Business in Chemicals, Drugs, and Allied Produce during the year 1918, compared with the two previous years.

## IMPORTS.

	1916	1917	1918
Soya beans ... .. piculs	1,220,100	1,403,236	1,952,888
Sesame seed ... .. "	163,830	91,362	195,009
Rape seed ... .. "	613,793	592,996	963,927
Cotton seed ... .. "	374,232	358,382	247,939
Linseed ... .. "	114,252	62,518	109,837
Ground-nuts ... .. "	51,969	28,108	106,297
Other seeds ... .. "	270,274	517,382	1,982,917
Condensed milk ... .. kin	3,794,698	4,558,075	3,233,976
Tonic foods ... .. "	110,806	104,787	191,867
Hops ... .. kin	309,213	524,296	431,698
Liquorice ... .. "	957,606	1,589,034	1,770,640
Saffron ... .. "	4,840	2,517	2,841
Catechu and gambier ... .. "	14,189,435	5,855,057	7,873,978
Gum acacia ... .. "	1,188,765	271,834	234,299
Shellac ... .. "	1,416,321	886,057	1,691,062
Resin ... .. "	22,816,384	19,717,689	19,762,815
Glue ... .. "	2,859,418	674,620	666,699
Gelatin ... .. "	59,617	20,085	74,719
Phosphorus, red ... .. "	180,645	197,044	98,157
yellow ... .. "	140,714	35,977	—
Acids :-			
Boric ... .. "	1,219,598	596,381	770,834
Oxalic ... .. "	165,514	38,776	277,073
Tartaric ... .. "	113,418	257,920	203,426
Salicylic ... .. "	28,805	68,324	390,310
Carbolic ... .. "	1,329,951	3,576,687	2,230,819
Citric ... .. "	41,440	75,440	27,444
Soda, caustic, crude ... .. "	15,905,913	36,914,745	12,361,038
Ash ... .. "	64,013,597	74,132,885	93,863,174
Bicarb. ... .. "	7,572,328	5,202,229	5,542,772
Peroxide ... .. "	43,886	41,840	16,500
Nitrate, crude ... .. "	76,701,594	91,809,555	81,509,242
Borate ... .. "	3,380,900	2,550,245	1,775,763
Cyanide ... .. "	404,184	405,074	1,191,942
Potash :-			
Ochlorate ... .. "	1,733,781	177,842	50,803
Cyanide ... .. "	1,025,947	493,030	459,497
Nitrate ... .. "	248,149	131,863	883,010
Bichromate ... .. "	522,057	442,108	167,538
Bromide ... .. "	2,547	2,573	253
Alum ... .. "	1,937,017	433,144	83,294
Bismuth subnit. ... .. "	3,711	5,192	1,209
Ammon. chlor. ... .. "	1,130,816	683,739	169,526
" sulph. ... .. piculs	119,407	251,661	18,144
" carb. ... .. kin	463,938	742,437	226,686
Calcium acetate ... .. "	973,942	193,024	1,034,553
Formalin ... .. "	895,153	432,324	552,506
Alcohol ... .. litres	4,950	1,916	19
Glycerin ... .. kin	800,830	671,316	453,943
Milk-sugar ... .. "	358,530	49,701	377,855
Acetanilide ... .. "	77,171	77,085	153,173
Antipyrin ... .. oz	33,438	54,359	94,259
Santonin ... .. kin	3,520	1,283	2,771
Quinine salts ... .. oz	381,661	513,763	452,799
Morphine salts ... .. "	558,812	600,229	165,087
Cocaine salts ... .. "	78,275	90,049	45,634
Guaiacol carb. ... .. kin	259	195	151
Aniline salt ... .. "	—	1	132,837
Tooth powders and other prepared			
perfumeries ... .. yen	145,328	94,336	122,833
Alcoholic medicinal preps. (except	30,450	34,927	44,277
tr. opii) ... .. litres	30,450	34,927	44,277
All other drugs, chemicals and			
medicines ... .. yen	4,519,561	4,901,962	9,752,773
All other compounds or pre-			
parations of drugs, chemicals and			
medicines ... .. yen	439,331	492,643	539,645
Aromatic chemicals ... .. "	104,564	53,121	226,629
Volatile oils, veget. fragrant ... .. kin	272,796	322,286	509,409
Turpentine oil ... .. litres	188,856	195,663	333,261
Perfumed waters ... .. kin	39,950	57,490	46,982
Copra ... .. "	29,659,411	67,795,695	124,877,606
Linseed oil ... .. "	274,365	111,208	331,445
Castor oil ... .. "	1,225,988	581,901	789,631
Olive oil ... .. "	195,994	89,260	106,288
Coconut oil ... .. "	854,101	1,590,021	515,069
Soya oil ... .. "	830,538	774,312	1,991,207
Paraffin wax (m.p. below 45° C.)	10,314,608	3,496,258	7,340,129
Paraffin wax, other ... .. "	14,134,271	14,481,536	18,394,356
Vaseline ... .. "	776,136	521,508	435,668
Oils, fats, and waxes, perfumed			
Stearin ... .. "	36,462	31,800	15,597
Olein ... .. "	401,088	456,357	186,340
Veget. tallow or wax ... .. "	689,680	653,459	1,183,228
Soaps, perfumed ... .. "	950,072	15,812	4,145
Soaps, other ... .. "	119,350	78,577	93,401
Indigo, dry natural ... .. "	115,512	121,627	51,928
" artificial ... .. "	111,873	64,761	1,092,286
Logwood extract ... .. "	20	1,444	108
Aniline dyes ... .. "	302,303	1,246,781	2,712,701
Other coal tar dyes ... .. "	527,304	628,699	1,919,245
Oxide of cobalt ... .. "	13,771	10,567	22,159
Liquid gold, silver, and platinum			
oz.	70,969	87,957	78,319
Ultramarine blue ... .. kin	61,631	20,210	23,836
	90,211	69,034	126,375

## IMPORTS—cont.

	1916	1917	1918
White and red lead, litharge ... kin	242,584	11,230	13,801
White zinc ... .. "	418,456	72,770	372,834
Carbon, black ... .. "	588,137	307,903	734,607
Lacquer ... .. "	1,316,765	1,256,516	1,560,387
Varnishes ... .. "	501,630	560,360	235,400
Pitch and asphalt ... .. "	1,312,018	1,095,211	1,490,100
Shoe polishes ... .. "	85,176	112,234	51,733
Photo dry plates ... .. yen	482,254	546,227	760,071
Bismuth ... .. kin	63,816	33,871	24,757
Antimony ... .. "	18,682,741	29,209,784	10,619,469
Surgical instruments ... .. yen	144,893	220,321	159,186
Photographic instruments ... .. "	60,071	147,243	218,898

## EXPORTS.

	1916	1917	1918
Soya beans ... .. kin	1,286,510	2,555,233	1,205,693
Ground-nuts ... .. "	11,689,394	14,081,891	14,141,249
Rape and mustard seed ... .. "	—	10,019,206	2,057,540
Linseed ... .. "	—	8,527,173	3,268,128
Sugar, refined ... .. "	146,193,769	220,903,954	190,878,168
Mineral waters ... .. doz.	504,745	295,770	314,790
Ciders, citrons, etc. ... .. "	135,723	119,907	120,365
Coconut oil ... .. kin	—	26,187,195	40,462,694
Sesame oil ... .. "	—	—	773,387
Soya oil ... .. "	5,913,514	5,524,746	4,928,218
Hardened oil ... .. "	—	—	591,055
Colza oil ... .. "	22,103,426	14,758,367	20,125,012
Castor oil ... .. "	—	—	424,908
Cottonseed oil ... .. "	—	1,209,551	1,834,798
Linseed oil ... .. "	—	—	4,194,113
Camphor oil ... .. "	1,971,680	1,713,633	1,370,869
Mint oil ... .. "	360,742	259,720	214,635
Fish and whale oil ... .. "	30,661,838	24,158,277	23,724,596
Fish wax ... .. "	—	—	434,512
Wax, vegetable ... .. "	6,308,295	4,976,093	8,924,049
Soaps, toilet ... .. doz.	2,600,932	5,040,409	4,732,659
" washing ... .. kin	736,266	435,873	1,446,921
Toilet creams ... .. "	—	—	648,885
Toilet or perf. water and hair-oil			
yen	755,831	996,057	1,162,772
All other oils, fats and waxes and			
manufactures thereof ... .. "	5,200,211	2,242,033	4,614,035
Agar-agar ... .. kin	2,785,710	2,106,942	2,639,456
Chillies ... .. "	1,977,507	2,377,849	1,097,466
Ginger, dried ... .. "	3,110,450	4,783,546	5,912,345
Soy ... .. sho	3,645,814	3,891,965	1,760,127
Ginseng ... .. kin	268,439	264,886	209,928
Dried plants for insectifuge ... .. "	1,358,673	2,498,007	2,417,134
Kaki ext. and other tanning exts. ... .. "	—	2,494,506	447,229
Compressed oxygen ... .. "	—	149,875	94,645
Insect powder ... .. "	616,609	503,414	611,288
Sulphur ... .. "	137,811,944	142,409,530	90,161,847
Camphor ... .. "	5,753,862	3,119,915	1,764,217
Potash, bromide ... .. "	—	—	63,250
" carbonate ... .. "	—	—	1,089,197
" chlorate ... .. "	—	2,582,209	3,602,102
" ferri and ferro cyanide ... .. "	—	—	128,398
" iodide ... .. "	166,473	165,403	184,950
Resin ... .. "	—	—	2,760,377
Alum ... .. "	—	—	2,408,538
Phosphorus, yellow and red ... .. "	—	—	237,477
Acetic acid ... .. "	—	4,257,737	3,525,878
Calcium carbide ... .. "	—	5,442,079	21,633,510
Menthol ... .. "	386,458	251,210	237,311
Zinc dust ... .. "	—	1,647,140	1,201,612
Naphthalene ... .. "	—	1,054,068	1,106,647
Iodine, crude ... .. "	3,044	47,370	61,389
Sulphuric acid ... .. "	25,008,955	6,949,083	5,826,009
Copper sulphate ... .. "	—	2,817,386	2,611,655
Caustic soda ... .. "	—	660,050	1,100,581
Bleaching-powder ... .. "	8,948,769	10,781,629	8,243,747
Ammon. sulphate ... .. "	—	—	875,740
Prepared medicines ... .. yen	819,344	1,605,869	1,915,318
All other drugs, medicines, and			
chemicals ... .. "	13,609,004	9,230,518	12,396,777
Gauze, wadding, and bandages ... .. "	—	1,010,611	1,183,110
Brushes :-			
Hair ... .. doz.	769,358	416,310	518,583
Tooth ... .. "	3,602,017	5,224,875	8,151,108
Nail ... .. "	429,415	370,772	341,607
Prepared perfumeries :-			
Tooth powder and pastes ... .. yen	337,568	427,424	663,004
Toilet powders ... .. "	210,658	284,365	544,701
All other toilet articles ... .. "	419,152	279,245	438,731
Spectacles ... .. number	2,756,804	3,275,829	2,701,803
Metal powders ... .. kin	—	630,784	416,621
Red lead ... .. "	—	1,432,665	3,474,727
Coal-tar and pitch ... .. "	—	20,471,824	14,662,149
Shoe polishes ... .. "	—	282,586	363,917
Inks ... .. "	764,240	822,971	1,052,448
Paints ... .. "	994,355	1,830,137	11,365,693
All other dyes, pigments, etc. ... .. yen	3,759,593	1,431,136	3,519,363
Thermos flasks ... .. doz.	—	52,272	78,553



## Trade Report.

42 Cannon Street, E.C. 4, June 5, 3 p.m.

THERE is a decided holiday tone about business this week. The distractions of the Derby and the celebration of the King's Birthday, which is an official holiday at the Customs, docks, wharves, etc., have proved an impediment to the execution of business, while next week the Whitsuntide recess will have a similar effect. Changes in prices have therefore been few. In the fine-chemical group they include a reduction in atropine, barbitone, benzamine, homatropine, phenacetin, and phenazone; cocaine, thymol, salol, benzoate of soda are easier. Codeine and morphine are the turn weaker and it is still difficult to get export permits. Vanillin is scarce for prompt delivery and dearer. Refined camphor has had a further slight rise. Menthol is firm. Castor and linseed oils are again dearer. Interest in drugs centres in the auctions to-day. Privately, higher rates have been paid for ipecacuanha; rhubarb is very scarce and dearer. Calumba is in good supply, and lower prices have been accepted. Probably one of the most interesting features of the week is the fact that the future supplies of quinine are assured.

Higher	Firmer	Easier	Lower
Camphor (ref.) Cardamoms Castor oil Cuttlefish-bone Ipecacuanha Linseed oil Rhubarb Spigelia Vanillin	Anise oil, star Soda phosphate Turmeric	Ammon. phosph. Apomorphine Cocaine Farina Honey Lithopone Peppermint oil (Amer.) Salol Soda benzoate Tamarinds (W.I.) Thymol	Atropine Barbitone Benzamine hyd. Blood-root Cajuput oil Calumba Eunymus-bark Homatropine and salts Hyoscyamine and salts Lactic acid Phenacetin Phenazone Sal prunella Saltpetre Soda acetate Soda nitrite

### Cablegram.

NEW YORK, June 4.—Business is quiet. Ipecacuanha is dearer at \$2.90 per lb. for Cartagena. Copaiba balsam is steady at 62½c., and menthol is firmer at \$5.90 per lb.

AMIDOPYRIN is firm and unchanged at 60s. per lb. There are some good export inquiries in the market, with only limited supplies available.

AMMON. PHOSPHATE is easier, 93 to 100 per cent. offering at 112l. per ton on the spot.

ANISE OIL, STAR.—Chinese is dearer, with spot sellers of "Red Ship" at 4s. 6d. Russian anise oil is offered at 13s. 6d. per lb. spot.

ANTIMONY.—There is a fair demand, English regulus selling at 45l. Considering the heavy Government stocks, the market all round is keeping up very well, while there are but few private sellers of foreign refined, which is quoted from 41l. to 42l. There is no sign of a revival of import business from the Far East, although it is suggested that permits might now be issued. The American price is reported firm, but the demand there is quieter. Chinese crude is nominal at 32l.

APOMORPHINE is slightly easier, makers offering hydrochloride cryst. at 64s. per oz.

ARICA.—Sound genuine Ceylon offer at 90s. per cwt. on spot.

ASPIRIN is unchanged, and there does not seem much room for a further decline. Fair quantities are being absorbed, particularly on export account. In the drug-auction 43 cwt. (m.p. 130 to 130.5°C.) were offered and bought in, no bid being made.

ATROPINE.—Makers offer at the lower rate of 80s. per oz. for crystals, and at 70s. for sulphate.

BARBITONE.—The sale has dwindled to a negligible quantity, which accounts for the decline to 40s. per lb., but the lower price does not stimulate business. The number of deaths from overdose, intentional and otherwise, has evidently led medical men to more freely prescribe sulphonal and methyl-sulphonal, of which the stocks are too small to meet the growing demand. Sulphonal to come forward from the U.S.A. is offered at 75s., and methyl-sulphonal at 87s. 6d.

BENZAMINE HYDROCHLOR.—The advent of a new maker has led to a "cutting" in price, the salt offering at 42s. 6d. per oz.

BLOOD-ROOT is cheaper at 3s. 6d. per lb. on the spot.

BROMIDES have met with more inquiry during the past week, and it is evident that most druggists have very small stocks. The freight outlook from the U.S.A. for June-July is very discouraging, and shipments will only come forward very slowly, so that buyers would be ill-advised to allow their stocks to run too low. Prices are unchanged, potash crystals offering at 2s. 8d., granular at 2s. 6d., sodium at 2s. 5d., and ammonium at 2s. 10d. to 3s. per lb. on the spot.

BUCHU.—The exports during February 1919 amounted to 20,551 lb. (3,597l.), against 22,937 lb. (4,166l.), during February 1918. During the two months ended February 1919 the exports were 21,538 lb. (3,747l.), against 23,467 lb. (4,219l.) in 1918.

CAFFEINE.—Dutch make of pure crystals is offered at 35s. There are large quantities of salicylate and soda-salicylate available in this country for export at very low prices.

CAJUPUT OIL is easier, fair native offering at 4s. 3d. per lb. on the spot.

CALAMUS-ROOT.—Peeled Russian is offered at 105s., and natural at 75s. per cwt. on the spot.

CALCIUM ACID PHOSPHATE has sellers at 84l. per ton for prompt delivery.

CAMPOR (REFINED).—Japanese 2½-lb. slabs have further advanced, spot sales having been made at from 13s. to 13s. 6d. per lb., and at 13s. landed. English flowers have advanced to 10s.

CANTHARIDES.—Fair Russian offer at 12s. 6d. per lb.

CASCARA SAGRADA has an easier feeling at the moment on the spot, probably owing to cheaper offers of new crop to come forward at 85s. per cwt. c.i.f. London. Spot is obtainable at 107s. 6d. for two-three year old.

CASSIA LIGNEA is firm, sellers asking whole selected at 105s. and broken at 95s. per cwt., but slightly less would be accepted in one quarter.

CASTOR OIL.—English has further advanced, pharmaceutical quality being quoted at 96l. net per ton, first pressing at 93l., and second pressing at 91l. per ton naked in ton lots; deliveries under one ton are 10s. extra. Barrels are 5l. per ton extra; 40 lb. tins (2 or 4 tins in a case) are 11l. 15s., and 2 gal. tins (4 tins to a case) 16l. 15s. per ton extra. Prices are ex mill and without engagement.

CINCHONINE.—Now that quinine is to be available in larger quantities it is anticipated that larger quantities of the minor alkaloids of quinine will also be offered more freely before long, as they are badly wanted. Cinchonine sulphate is selling at 1s. 5d. and hydrochlor. at 1s. 9d. Cinchonidine sulphate is 2s. 2d. per oz., all less 5 per cent.

CITRIC ACID remains firm at from 4s. 4d. to 4s. 4½d. per lb.

CLOVE OIL is steady at 11s. 6d. per lb. from English distillers.

CLOVES have slightly eased, with spot sellers of fair Zanzibar at 1s. 3d. per lb., and June-August shipment at 1s. 2d. c.i.f.

COCAINE.—The tendency is slightly weaker, which is surprising in view of the large export orders pending, and the position of raw material does not justify any further reduction in the price of hydrochloride.

COCOA-BUTTER.—At auction 50 tons (lying at Luton) sold at 2s. 7d. per lb.

COD-LIVER OIL.—Rather better supplies of new Norwegian are coming forward to Northern ports, but they are evidently on Government account, as licences have been refused to private exporters. In London agents are quoting finest new non-freezing Lofoten oil at from 435s. to 445s. per barrel c.i.f. London. An Aalesund report, dated May 26, states that up to May 24 the catch and the output of cod-liver oil and the quantity of liver for natural oils in the whole of Norway amounted to—

25,700,000	Cod,	31,897	hect.	Cod Liver Oil	and 3,590	hect.	Liver	against
18,900,000	"	16,690	"	"	"	7,780	"	" in 1918.
23,400,000	"	31,401	"	"	"	3,720	"	" " 1917
47,000,000	"	55,326	"	"	"	5,926	"	" " 1916.

on the corresponding date.

COPPER SULPHATE.—There is no doubt that current rates will be at least maintained for some time, as, despite the subdued export demand, some revival is expected sooner or later. Fair stocks are presumably held in France under control, and in the present difficulties in regard to the exchange rate the prospect of new business being arranged for English sulphate is not promising. There is some hope of business with Black Sea ports opening up again soon, if political and financial conditions permit. Merchants usually catering for business in that direction are already on the look-out for this. Home makers would certainly be in a position to take orders pretty freely for export. There is a fair home demand for farm use, and the price stands at 45l., less 1 per cent. delivered. Export terms are 47l. in bags and 48l. a ton in casks f.o.b. Liverpool, less 5 per cent.



**DIGITALIS-LEAVES.**—Spanish are quoted at 30s. per cwt. on the spot.

**EUONYMUS-BARK** is offered at the lower rate of 3s. 3d. per lb. on spot.

**FARINA** is easier, with spot sellers of No. 1 Japanese at 47s., and May-July shipment at 46s. 6d. c.i.f.

**HENBANE.**—Privately, Egyptian is quoted at 100s. per cwt. on the spot. In the drug-auction 8 bales Egyptian (0.47 per cwt.) were limited at 90s. per cwt.

**HEXAMINE.**—We understand that a fair quantity previously offered at a low price has been disposed of and the market is steadier again, but practically unchanged at 5s. 6d.

**HOMATROPINE.**—Prices of the alkaloid and salts have been modified. The hydrobromide is offered at 215s. to 215s. per oz., the hydrochloride at 245s. to 240s., and the alkaloid at 275s. to 270s. per oz.

**HYDROGEN PEROXIDE.**—B.P. (10 vols.) is quoted at 2s. 9d. and 12 vols. at 3s. 3d. per gal.

**HYDROQUINONE** is in more active demand at 10s. 6d. per lb. Stocks are light and insufficient to meet the anticipated consumption.

**HYOSCYAMINE** is lower, makers offering the pure crystals, hydrobromide and sulphate, at 6s. per 15 grains.

**GENTIAN** is steady at from 57s. 6d. to 60s. on the spot, which prices are cheaper than those at which it could be imported from Spain.

**ICHTHYOL.**—Substitutes of Japanese make offer at from 2s. 4d. to 2s. 10d. per lb.

**LACTIC ACID** is easier, technical, 50 per cent. by volume, offering at 68l. per ton in barrels.

**LEMON OIL** is very flat, to arrive offering at 4s. 3d. c.i.f., spot value being 4s. 6d.

**LINSEED OIL** has advanced about 8s. per cwt., naked, on the spot, closing on Wednesday at 113s. and July-August at 109s.

**LITHOPONE.**—American for June shipment is easier at 40l. per ton in casks for 30 per cent. white.

**LYCOPodium** is offered at 5s. 6d. per lb. on the spot. The price placed on 2 cwt. offered in the drug sale was 5s. 7½d. per lb.

**MENTHOL** is firm, with spot sellers of Kobayashi-Suzuki at 25s. per lb., at which a fair business has been done. The export demand to the Continent has improved. In the drug-auction 7 cases of Kobayashi sold with all faults at 24s. per lb.

**MINT OIL.**—Japanese dementholised is firm, with spot sales of the favourite brands at 5s. 10½d., and to arrive 5s. 7½d. c.i.f. is quoted. The Continental demand is improving. In the drug-auction 10 cases Japanese dementholised of an outside brand sold at 5s. 9d.

**MORPHINE.**—Current list prices from makers are: Acetate, 18s.; bromide, 22s. 6d.; diacetyl hydrochlor., 30s. 6d.; ethyl hydrochlor., 31s. 6d.; hydrochloride, 18s.; crystals, 18s. 3d.; meconate, 22s. 6d. Pure crystals, 22s. 9d.; pure precipitate, 22s. 6d.; sulphate crystals, 18s. 3d.; powder, 18s.; and tartrate, 22s. 6d. per oz. net.

**MUSTARD-SEED.**—English is offered at 79l. per ton.

**OPIMUM.**—With fair supplies of Turkey on the spot, 11½ per cent. can be had at about 27s. per lb. Persian still maintains its price on account of a good demand for the East, 10 per cent. being worth about 60s. nominally.

**PARALDEHYDE.**—As no further shipments are advised from the U.S.A. it is somewhat surprising that the price does not advance, dealers still quoting 4s. 9d. to 4s. 6d.

**PEPPER** has been quiet, with a slightly weaker tendency. Spot sellers of fair black Singapore quote 11d., Tellicherry at 11½d., and Aleppy at 10½d. White is quoted at 1s. 4½d. for Singapore, and at 1s. 4½d. for Muntok.

**PEPPERMINT OIL.**—The principal importers of American tin oil still hold out for 42s. and upwards, but for less esteemed brands there are cheaper prices than the foregoing.

**PHENACETIN.**—The spurt which occurred last week has subsided owing to the arrival of two vessels with a fair quantity, which will not be available until after the holidays. Meanwhile the price has gone back to 14s. to 13s. 6d., and perhaps a trifle less.

**PHENAZONE.**—Some small lots have been imported from France contrary to regulations, and prices have been cut down by dealers to 30s. per lb.

**PYROGALLIC ACID.**—The photographic demand is still limited, dealers offering crystals at 11s. to 10s. 6d., and resublimed at 14s. to 13s. 6d. per lb.

**QUICKSILVER.**—The market is again firmer, with quotations ranging from 18l. 10s. to 19l. per bottle. The demand is very active, but there is no reliable information so far in regard to the foreign destinations for which the product appears to be so actively sought after. The American price has, it is reported, risen to a little over \$80 per flask, and the demand in New York continues in excess of the rather limited supplies from the Pacific Coast. It is rumoured that the whole of the American surplus which existed last

year under control has already disappeared, but this requires confirmation. The price here has advanced to above the American parity, and it is thus not surprising that offers made from here to America have proved abortive so far at any rate. The cost of freightage to New York would be about 4s. per bottle.

**QUININE.**—We understand that an arrangement has been made between the quinine manufacturers and the large buyers in this country for the regular supply of quinine to the British markets. This is eminently satisfactory, and it is hoped that the parties to the new arrangement will succeed in freeing quinine entirely from official control and securing that there are ample supplies.

**RHAPONTICA.**—Stocks of Chinese on the spot are gradually dwindling and not being replaced by fresh imports. Several dealers recently cleared out their stocks at 1s. per lb., but 1s. 4d. is asked in one quarter.

**SACCHARIN.**—Privately, from 19s. to 20s. per lb. net is quoted for American 550 pure in bond. In the drug auction 10 cwt. of British make (550 strength) was bought, in at 20s. per lb., no bid being made.

**SALICYLIC ACID.**—In spite of the low prices at which it can be bought, few buyers have the courage to make forward contracts, although, as previously stated, the present price is practically on a level with the pre-war value when the increased cost of production is considered. Quotations are as notified last week.

**SALOL.**—There being practically no export demand at the moment dealers are freely cutting prices, offering to sell their stocks at 4s. 3d. and a trifle less.

**SALTPETRE.**—The prices of British refined have been reduced by 3s. per cwt. all round, the value of crystals and granulated in 1-cwt. bags being 58s., and 2-cwt. bags 57s. Powdered is 60s. in cwt. bags and 59s. in 2-cwt. casks. *Sal Prunella* cakes are 10s. more than the above prices.

**SCAMMONY-ROOT.**—Mexican testing 20 per cent. resin is offered at 80s. per owt. on the spot.

**SENEGAL** is very firm, a limited quantity offering on the spot at from 7s. to 7s. 2d. per lb., and to arrive 6s. 9d. c.i.f. is quoted.

**SHELLAC** has been quiet, with spot prices firm at from 330s. to 335s. for usual standard TN Orange; fine Orange is 380s. to 390s., blocky AC Garnet 280s., G.A.L. 260s., and pure Button 385s. Futures are lower on balance, with wide fluctuations; August delivery has been sold up to 336s., but closed on Wednesday with sales at 328s. to 323s. TN for May-June shipment is quoted at 300s. c.i.f. in bags, and June-August at 290s. c.i.f.

**SODA BENZOATE** follows the downward movement in benzoic acid, and can be bought at 5s. 3d., with the probability that orders at 5s. would not be refused.

**SODA SALICYLATE** remains fairly steady, and the quantity available seems to be readily absorbed as the production is limited; from 2s. 9d. to 2s. 6d. is quoted for B.P. powder.

**SODA SALTS.**—Acetate is lower, small crystals for prompt delivery offering in bags at 65l. per ton. Nitrite is cheaper, electrolytic 96 to 98 per cent. offering at 62l. in casks. *Perborate* (10.4 per cent.) is offered at 2s. 3d. per lb. in barrels, and *Permanganate* crystals (52 per cent.) at 3s. 6d. per lb. in kegs. *Phosphate* is rather firmer, commercial crystals (97 to 100 per cent.) offering at 28l. per ton in casks and bags. *Sulphate.*—B.P. pea crystals can be had at 12l. per ton in casks.

**SPIGELIA-ROOT** is dearer at 4s. 4d. per lb. on the spot.

**TARTAR EMETIC** is quoted at 3s. 4d. per lb. for 43 to 44 per cent. powder in casks.

**TERPINEOL** is firm at 4s. per lb.

**THYMOL.**—The consumption has evidently fallen off. This is thought to be due to the high prices charged by Indian shippers during the war, having led consumers to adopt a cheaper substitute in the manufacture of antiseptic preparations. Spot supplies are obtainable at from 30s. to 28s.

**TURPENTINE** has been active and dearer, American on spot closing to-day at 103s. (102s. paid), with large sales in forward positions up to the end of the year.

**VANILLIN.**—The price has been suddenly raised all round, with spot sales from second-hands up to 45s. per lb. There appears to have been a good export demand of late, and English makers only offer for delivery in a month or so.

**ZINC OXIDE.**—The import restrictions having been relaxed, it seems probable that American and Continental material, especially Dutch, will come along more freely in the near future, and some competition against the home-made product may have to be reckoned with. On the other hand, the call for consumption is said to be considerable and the market has been unaffected by the rather easier tendency of metallic zinc. Quotations of home zinc oxide stand at 70l. to 85l., according to description. It is understood that importations are allowed by one-half of pre-war requirements. There is a very good demand for zinc white, and



the output of this is being increased in Holland. Production in Belgium is not unlikely to be revived, while preparations in regard to the handling of ores in that country are making fair headway despite many difficulties.

### London Drug-auctions.

Commercial Sale Rooms,  
Mincing Lane, E.C. 3, June 5.

FAIR supplies were offered at the auction, but the demand compared with the previous sale showed a falling-off. Cape and Socotrine aloes are now plentiful, but met with no demand. Sumatra benzoin has also arrived more freely, but failed to sell, the tendency being easier. Cardamoms met with keen competition at again higher rates. Calumba sold at lower prices. Dragon's-blood and gamboge are neglected. Honey met with a quiet sale at easier rates. Matto Grosso ipecacuanha is dearer than the previous auction, but firm compared with the prices paid privately. Kola in demand at firm rates. Myrrh was irregular, opening cheaper but closing firm. Nux vomica neglected and in large supply. Rhubarb is extremely scarce, and higher prices are asked. Sarsaparilla is about steady, and there was more demand for Tinnevely senna. Turmeric finger met with more demand at firmer prices. Beeswax was quite neglected. The following table shows the quantity of goods offered and sold:

	Offered	Sold		Offered	Sold
Aconite-root ...	56	0	Jalap (V.C.) ...	38 ...	10
Agar-agar ...	3	0	Kola ...	119 ...	119
<b>Aloes—</b>					
Cape ...	(cs.) 171	5	Lemongrass oil ...	21 ...	0
Socotrine ...	(kegs) 126	12	Lime-juice ...	(pns.) 5	0
Zanzibar ...	(cs.) 1	0	Lime oil ...	13 ...	0
Anise star (Ch.) ...	105	0	Liquorice-root ...	289 ...	0
Annatto-seed ...	30	0	Lycopodium ...	(cwt.) 2	0
Argol (Cape) ...	61	0	Marjoram ...	35 ...	18
Aspirin ...	(cwt.) 43	0	Menthol ...	7 ...	7
Balsam (Peru) ...	20	0	Milk sugar ...	21 ...	0
Balsam tolu ...	37	0	Mint oil (Jp.) ...	10 ...	10
Benzoin—			Myrrh ...	68 ...	29
Palembang ...	30 ...	20	Nux vomica ...	1,540 ...	0
Siam ...	36 ...	0	Olibanum ...	87 ...	0
Sumatra ...	343 ...	0	Orange oil ...	11 ...	0
Calumba... ..	305 ...	188	Orange-peel ...	77 ...	5
Cannab. ind. ...	39 ...	0	Orris (Mor.) ...	55 ...	0
Cantharides ...	8 ...	0	Pepper (black)... ..	74 ...	0
Cardamoms ...	337 ...	263	Quillaia ...	20 ...	0
Cascarilla ...	8 ...	0	Quince-seed ...	18 ...	0
Cassia ...	75 ...	0	Rhubarb ...	22 ...	0
Cassia fistula ...	4 ...	4	Saccharin ...	(cwt.) 10	0
Castoreum ...	(lb.) 16 ...	0	Sage ...	106 ...	0
Celery-seed ...	23 ...	0	<b>Sarsaparilla—</b>		
Chiretta ...	40 ...	12	Grey Jamaica ...	29 ...	0
Cinchona ...	40 ...	5	Lima ...	79 ...	10
Cinnamon-leaf oil ...	35 ...	0	Mexican ...	12 ...	0
Cochineal ...	16 ...	2*	Native Jam. ...	77 ...	32
Copaiba ...	14 ...	0	<b>Senna and pods—</b>		
Cubeb ...	2 ...	0	Alex. ...	120 ...	0
Cuttlefish-bone ...	38 ...	38	Tinnevely ...	570 ...	146
Damiana ...	2 ...	0	Slippery elm ...	4 ...	2*
Dragon's-blood ...	20 ...	2	Soy ...	(cs.) 100 ...	0
Egg-yolk ...	(dr.) 55 ...	54*	Sponges ...	(cs.) 16 ...	0
Eucalyptus oil ...	40 ...	0	Squill ...	304 ...	0
Fennel-seed ...	61 ...	0	Storax liq. ...	5 ...	0
Fenugreek-seed ...	51 ...	0	Stramonium ...	9 ...	0
Galls (Pers.) ...	67 ...	1*	Strophanthus ...	53 ...	1
Gamboge ...	32 ...	0	Tamarinds ...	150 ...	60
Gentian ...	119 ...	0	Tonka-beans ...	6 ...	0
Guaiacum ...	1 ...	1	Tragacanth ...	151 ...	13
Guarana ...	10 ...	0	Turmeric ...	689 ...	42
Gum acacia ...	20 ...	0	Uva ursi ...	9 ...	0
Gurjun oil ...	50 ...	0	Valerian ...	14 ...	0
Henbane ...	18 ...	0	<b>Wax (bees')—</b>		
<b>Honey—</b>			Abyssinian ...	313 ...	0
Australian ...	831 ...	20*	Benguela ...	27 ...	0
Californian ...	322 ...	0	Quban ...	31 ...	0
Chilian ...	7 ...	0	East African ...	598 ...	0
Cuban... ..	234 ...	83	East India ...	88 ...	0
Guatemala ...	164 ...	93	Jamaica ...	12 ...	0
Haitian ...	126 ...	44	Morocco ...	5 ...	0
Jamaican ...	103 ...	2	Mozambique ...	281 ...	0
Japanese ...	25 ...	0	Nyasaland ...	6 ...	0
Moroccan ...	5 ...	0	West Indian ...	1 ...	0
St. Lucia ...	17 ...	17	Zanzibar ...	32 ...	0
Trinidad ...	30 ...	14	<b>Wax candelilla ..</b>		
Hydroquinone (lb.)	56 ...	0	„ carnauba ...	80 ...	80
<b>Ipecacuanha—</b>			„ Jap (veg.) ...	10 ...	0
Cartagena ...	10 ...	10	Wild-cherry bark ...	20 ...	0
Matto Grosso ...	12 ...	4	Yohimbe bark ...	173 ...	175

\* Sold privately.

ALOES.—With more plentiful supplies of Cape buyers held off, and only five cases sold at 55s. per cwt. for good hard bright firsts. Of Socotrine, 125 kegs offered and 11 sold at 57s. 6d. for black Mocha. The exports from the Union of South Africa during February 1919 amounted to 168,828 lb., valued at 1,802l., against nil in the corresponding month of 1918. During the two months ended February 1919 the

exports were 202,504 lb. (2,139l.), against 153,584 lb. (1,312l.) in 1918.

ANNATTO-SEED.—Both East Indian and Java were obtainable at 6d. per lb. for dullish to fair.

BALSAM TOLU.—A new lot of 37 cases fair, mostly soft, was held at 6s. per lb.

BENZON.—Supplies of Sumatra being more plentiful prices are tending easier, very little demand being evinced. The bulk of the offerings consisted of thirds, for which the prices ranged from 7l. 10s. to 7l. 15s. for inferior to ordinary, up to 8l. 10s. to 9l. for fair to good; 28 cases of fine seconds well packed with small almonds were held at 11l. 10s., and 16 cases good fair at 10l. Twenty cases good firsts Palembang sold at 6l. 15s. per cwt. subject to approval, and 10 cases of fair seconds were limited at 6l. Of Siam 36 cases offered, the following being limits: Small to bold loose to slightly blocky almonds, 40l. to 43l.; pea and bean size, slightly blocky, 37l. to 40l.; small grains in brown block, 25l. per cwt.

CALUMBA.—Privately, sales of good sorts have been made at 80s. per cwt. Fair arrivals have taken place lately, and advices have been received that a further 30 to 40 tons are on the way. In auction 188 bags of fine bright sound medium to extra bold sorts sold at 90s. and good fair at 85s.

CANNABIS INDICA.—Fair Bombay tops are obtainable at 16s. per lb.

CARDAMOMS met with an active demand and keen competition for the finer grades, prices of which appreciated 1s., but the advance on other qualities was 2d. to 3d. The following prices were paid: Ceylon-Mysore, extra bold fine pale (4 cases), 8s. 8d.; bold fine pale, 8s. 3d.; medium to bold pale, 7s. 9d. to 7s. 10d.; small to medium palish, 7s. 3d.; small pale, 6s. 5d.; dull bold, part split, 4s. 6d.; dull medium, 3s. 6d. Splits, good bold fine pale, 8s. 1d.; good medium fine pale, 6s. 10d. to 6s. 11d.; small and medium fine pale, 6s. 1d.; ordinary to fair brown splits and pickings, 3s. 3d. to 4s. 3d.; seed, 3s. 4d. to 3s. 7d. A lot of 40 cases Mangalore sold at 7s. 9d. to 8s. for good medium palish and 7s. 6d. for good medium part warty. A parcel of 37 cases Indian, of which the samples were late in arriving, sold at from 6s. 3d. to 7s. 7d., as to quality. The exports from Ceylon during the period January to March 1919 amounted to 75,436 lb., against 158,520 lb. during the corresponding period of 1918. The principal destinations were as follows, the figures in parentheses denoting those for the 1918 quarter: U.K., 32,168 lb. (374 lb.); U.S.A., 39,169 lb. (43,687 lb.); and India, 3,498 lb. (111,314 lb.).

CASSIA FISTULA is very scarce, with sales from second-hands at 160s. per cwt. At auction four bags of fair bright, part ratty, sold at 160s.

CHIRETTA.—Seven bales of Japanese of good bright quality had been sold privately. This is the first occasion we have seen Japanese offered at auction. Five bales fair Calcutta sold at 1s. 3d.

CINCHONA.—Five bales of South American quill sold at 1s. 10d. per lb.

CINNAMON OIL.—A lot of 35 cases Ceylon leaf was bought in at 8d. per oz., the limit being 7½d., Parry's analysis showing 73 to 74 per cent.

CUBEBS.—Very scarce; a bag of small cubeb stalks was limited at 20l. and a bag of dust at 10l. per cwt.

CUTTLEFISH-BONE.—Rather dearer, 38 bundles of fair clean small to bold pale E. I. sorts selling at 9½d. per lb.

DRAGON'S-BLOOD.—A single case of false-packed, part re-boiled Singapore sold, subject to seller's approval, at 22l. per cwt., and for a further case of re-boiled a bid of 23l. is to be submitted. Pickings were obtainable at 10l.

GALLS.—Fair small to bold Persian (67 bags) were limited at 115s. per cwt.

GUAIACUM.—A single barrel sold at 4s. 6d. per lb.

GUARANA is selling privately at 7s. 3d. per lb., which price was asked in auction for 10 cases of ordinary to fair.

GUM KARAYA.—Ten bags siftings sold at 40s. per cwt. subject to approval.

GURJUN BALSAM.—Fifty drums of Singapore were limited at 2s. 9d. per lb.

HONEY.—Very quiet, and the tendency in view of the large supplies was easier, the bulk of the offerings being bought in. Seventeen cases St. Lucia sold at 66s. for darkish amber liquid, and 90 cases Guatemala realised 85s. to 86s. for nice set and setting amber; 44 cases Cuban sold at from 72s. 6d. to 80s. for dark to pale brown set, and at 60s. for dark set; 44 cases Hayti sold at 60s. to 77s. 6d. per cwt. for brown to amber set; 302 cases Californian were held at 85s. Nine cases good amber liquid Trinidad sold at 90s., and five cases amber set were taken at 85s. The bought-in lots included 374 cases Australian at 70s. for grey, 67s. 6d. being wanted; also 43 packages for which 70s. was the limit. Privately a good export trade has been done during the auction interval, the sales including white Cuban at 95s., yellow set at 82s. 6d., Californian light amber at



97s. 6d., and Australian at 67s. 6d. New crop Californian for June shipment from the Pacific Coast is offered at 112s. c.i.f. London.

**IPECACUANHA.**—Privately stocks are getting into much smaller compass, the bulk of the East Indian offered at the last sale having been disposed of; in fact, prices of this description have risen about 5s. per lb., there being buyers at 12s. 6d. Sales of good bright Verra Cruz have been made at up to 13s., the stock of this description being small. In auction 12 bales Matto Grosso offered and 4 sold at 13s. for good fair. Ten bags of Cartagena offered and sold at from 12s. 1d. to 12s. 3d. per lb. for ordinary to good.

**JALAP.**—A new lot of 38 bags Vera Cruz offered and 10 sold at 2s. 9d. per lb. for good small to bold, part heavy.

**KOLA** is steady, 68 bags of good Ceylon halves selling at from 6d. to 6½d. per lb., and for 50 bags of good African quarters, offered without reserve, 6½d. to 7d. was paid.

**LIME-JUICE.**—Five puncheons of good pale raw were limited at 3s. per gallon, a bid of 2s. 9d. being refused.

**LIME OIL.**—Two cases of hand-pressed West Indian were limited at 14s. per lb.

**MARJORAM.**—A lot of 18 bales sold at 125s. per cwt.

**MILK-SUGAR.**—Twenty cases British make were bought in, the price not transpiring, a bid of 1s. per lb. being refused.

**MYRRH.**—Firm. A lot of 15 bags offered, of which 10 had been sold privately, and the remaining 5 sold at 15l. for fair reddish sorts, part blocky. A further 4 bags of slightly blocky mixed Somali sorts also sold at 15l. per cwt., and for 10 cases red glassy sorts 18l. was paid.

**NUX VOMICA.**—Slow of sale, with continued large supplies on offer, good bright Cochin being obtainable at 30s. per cwt.

**QUILLIA.**—For 20 bags of crushed 87s. 6d. per cwt. was wanted.

**QUINCE-SEED.**—A parcel of 18 bags Spanish offered, 4s. being wanted for the sound, of which there were 16 bags.

**RHUBARB** is extremely scarce; 13 cases of medium to bold round Shensi, with three-quarters fair pinky fracture, were firmly held at 8s. per lb.; 20 bags of Chinese round Rha-pontica were bought in at 1s. 6d.

**SARSAPARILLA.**—Slow of sale; 29 bales grey Jamaica offered and bought in at 3s., the limit being 2s. 10d. Five bales, all more or less sea-damaged Native-Jamaica, sold at from 7½d. to 10d. per lb., and 27 bales at from 1s. to 1s. 1d. for dull red and yellow mixed, and 10d. for sea-damaged. Two bales of Lima-Jamaica sold at 2s. 6d. out of 79 offered, and for 8 bales part mouldy 2s. 3d. was paid. Privately Mexican is quoted at 1s. 9d.

**SENNA.**—Quiet; 29 bales of Tinnevely leaf sold at from 3d. to 3½d. per lb. for ordinary small to medium yellowish leaf. A further 45 bales sold at 7d. to 8½d. for medium to bold greenish, and 3½d. to 4½d. for middling to fair greenish. Tinnevely pods sold at from 2½d. to 3½d. for sea-damaged. Thirty bales of good pale Alexandrian pods offered, the limit being 1s. 6d.

**SLIPPERY-ELM-BARK.**—Four bags offered, of which two had been sold privately, 1s. being wanted for the remainder.

**SOY.**—A lot of 100 cases' Seuloong Owl brand was bought in at 52s. 6d. per cwt., duty paid.

**STROPHANTHUS.**—A single bag sold at 3s. per lb. for sea-damaged, sound being held at 3s. 6d.

**TAMARINDS.**—Fifty barrels of Antiguan sold in bond without reserve at from 38s. to 40s. per cwt. for ordinary dull, part stony and dark.

**TURMERIC** in more demand; 17 bags of fair Madras finger sold at 50s., and 25 bags, part wormy, went at 42s. per cwt.; 96 bags Bengal were limited at 40s.

**WAX, CANDELLILLA.**—A parcel of 63 bags was held at 11l. per cwt.

**WAX, CARNAUBA.**—Eighty bags of bleached sold at from 95s. to 100s. per cwt. without reserve, being cheap.

**YOHIMBEH-BARK.**—A lot of 173 bags lying in Liverpool sold without reserve at from 7½d. to 7½d. (one lot 7½d.) per lb.

**INSECTICIDAL PROPERTIES OF MERCURY.**—In a paper read before the recent All-India Entomological Conference important facts about the properties of metallic mercury were pointed out. The storing of grain or pulse with a drop of mercury placed in a small vessel on the top of the grain inside the receptacles in which the grain is kept has the effect of preventing weevils, beetles, etc., from breeding. Grain or pulse stored in this way will keep good for months. No explanation was offered as to how mercury acted, but it was stated that it appeared to affect the eggs in their early stages and prevent them hatching. This method of keeping grain has apparently been used by the Mysore peasantry for a long time, but it still remains for some scientist to explain the action of the mercury. A piano may also be preserved from attacks of various borers and weevils by placing a drop or two of mercury inside its "works."



#### The Scottish Pharmaceutical Federation.

SIR,—We shall take it as a favour if you will kindly insert the following:

We, the undersigned members of the North British Executive, have resigned from this body as a protest:

(1) Against the issuing of certain circulars animadverting on the Scottish Pharmaceutical Federation.

(2) That the circulars were issued without the knowledge of the full Executive.

(3) That the position of the Scottish Pharmaceutical Federation in relation to the North British Executive has not been properly stated.—Yours very truly,

H. P. ARTHUR, Glasgow.

W. S. GLASS, Edinburgh.

W. B. COWIE, Edinburgh.

JAMES JACK, Arbroath.

T. MACKENZIE, Inverness.

A. MURRAY, Glasgow.

J. H. —, Dunblane.

#### Drug-trade Union.

SIR,—In reply to Mr. Kirkby (C. & D., May 31, p. 71), I would like to say that, in his endeavours to explain his frequent attendance at the meetings of the Manchester Chemists' Assistants' Association, it matters little whether he is there in an official or unofficial capacity. The constant attempt of members of an Employers' Association to influence what professes to be an Assistants' Association creates an atmosphere of suspicion and distrust, which is in no small measure responsible for the failure of the Manchester Chemists' Assistants' Association. This is intensified by the fact that three leaders of the assistants are avowed members of the Employers' Association. As the writer of this letter is a qualified chemist, it is as much to his interest to defend the qualification as it is to Mr. Kirkby's interest. Mr. Kirkby has been a prominent figure in the pharmaceutical world for many years now. If the present threatened influx of apothecaries' assistants to the Register or Chemists and Druggists, with the collusion of the Pharmaceutical Society, is an indication of the way in which Mr. Kirkby and his associates have been defending the qualification in the past, then the sooner assistants escape from this weak and vacillating leadership and take the matter into their own hands the better. This shameful surrender of the rights of qualified assistants by the Pharmaceutical Society could never have taken place if the assistants had been welded into a strong trade union. Both proprietor and non-proprietor chemists have wasted valuable time in the past in discussions on obscure drugs, antique ointment-pots, the desirability of using fresh infusions, and such like "pharmaceutical nonsense," instead of defending their qualification and seeking better wages and conditions of life. I feel sure Mr. Kirkby can fully bear me out in this. What I have consistently advocated in this correspondence is a craft union—viz., the Amalgamated Society of Pharmacists, Drug and Chemical Workers—which, I believe, is the only means of raising the status of chemists' assistants. It is free from all the objectionable features previously discussed. I am pleased to see that this Society has already lodged a strong protest against the admission, without examination, of apothecaries' assistants to the Register, as proposed by the Pharmaceutical Society. I have yet to hear of Mr. Kirkby or the Assistants' Association doing likewise; doubtless they are too securely tied to the chariot-wheels of the Pharmaceutical Society. As for Mr. Kirkby's hypothetical story of the canary and sparrows, I could produce hundreds of wholesale drug workers in Manchester who by joining a mixed union have reduced their hours of labour and added sums approaching 17. per week to their wages.

Yours, etc.,

MANCHESTER. (175/28.)

#### Registering Apothecaries' Assistants.

SIR,—It is apparent from the columns of the "Journal" this week that Mr. Goldstraw's letter, though unpublished, has done good. I am obliged to him for his thanks and am grateful to him for the opportunity it gave in turning a little light on how things are done. I attended the meeting when the new by-laws were passed, and it was there confidently implied that any individual of ordinary talent and application who tried could now qualify. If this be so, why do not these individuals present themselves at the appointed time and qualify? I met a chemist friend last Wednesday whose examination history is as follows: Went



up, complimented by examiner in one subject. Failed. Tried again; thrown out in the identical subject he was previously complimented on, both on the second day. . . . Went home, "swatted" some more, got through (third application), and promptly fell ill from anxiety and worry. There are many cases such as his, and some worse. Where do they come in over this job? . . . If the Apothecaries' Hall people want their assistants to have a certificate different from their own, why do not they take them all in by Act of Parliament? They can promote one, and I dare say they could manage all right; if not, they could steal some of the present registered doctors' thunder. The official speaker at the meeting held *in camera* did not like the idea of a trades union for chemists. What is the British Medical Association? A trade union in all but name, and now there is a movement on foot to form a real trades union on working-class lines. If doctors, why not chemists? Meanwhile, I intend opposing these by-laws to the utmost of my ability.

Yours faithfully,

W. M. TIMS.

#### The Economic Position.

SIR,—Is the economic value of a qualified assistant less than that of a certificated teacher? I ask this question because the National Union of Teachers has decided that the maximum pay of a certificated teacher should be 350*l.* per annum, the maximum being attained at the time of life when it is most needed for the education of a family, about the age of thirty-three. The commencing salary on leaving college is not to be less than 130*l.* per annum, increasing by annual increments of 12*l.* 10*s.* to the maximum. In addition to this, at the retiring period—at sixty to sixty-five years of age—the teacher receives a sum of money equal to a year and a half's salary and an annual pension computed on the average of the last five years of service, one-half of the annual income for that period being the annual pension for the remaining period of his life. This pay and pension are the outcome of Mr. Fisher's plea on behalf of the scholastic profession. Who will plead for pharmacy? Let us for a moment compare the training and pay of the pharmaceutical and scholastic professions:

(1) The pharmacist pays a premium when apprenticed, and receives no salary. The teacher receives his training free, and receives enough money to live during his pupilage.

(2) The pharmacist pays his own college and examination fees. The teacher is subsidised to the extent of 25*l.* per annum when he enters college and for the full period of training—two years.

(3) The training of the pharmacist is a comprehensive one, demanding a high standard of knowledge; the percentage of failures at the examinations indicate the proficiency demanded. The failures in teachers' training-colleges are very few indeed, possibly not totalling 5 per cent. The knowledge demanded does not surpass that needed for the Matric.

(4) The calling of the pharmacist demands the greatest skill and care, calling for resourcefulness and independence of action in myriads of cases. That of the teacher demands only a regular attention and attendance to duties and a true desire to present moral truths in a way that the young may understand the same. I am, of course, dealing with the duties of elementary-school teachers in my comparison.

(5) Pharmacists, in some instances, enjoy a fortnight's leave during the year, for which they are not paid. Teachers enjoy a minimum period of two months per annum, with pay, and shorter working hours—five and a half hours per day, twenty-seven and a half hours per week.

I sincerely hope that the comparisons I have made will awaken pharmacists, principals and assistants alike, to the fact that it is time we indicated to the Insurance Commissioners, in no uncertain terms, that we are inadequately paid, and that we are not prepared any longer to accept a mere pittance for the services we render. If we take paltry fees (less than a barber receives) without demur, we may be sure the Commissioners will not say, "Nay." Those who negotiate for us should understand that we are determined to have justice. If we stand firm, now that we are well organised, we shall get the just concessions which have been granted to teachers by the authorities, and to dockers, miners, and engineers by their employers through the intervention of the Government. The panel doctors are about to request an increase in their fees. Let us not be hoodwinked this time; let us not be frightened by threats that national dispensaries may be set up, nor blinded by fair promises of better consideration in the future. Far better treatment must be meted out to us when the coming contract is agreed upon. The doctors had what they de-

manded when the National Insurance Act became law because they were united. In like manner we may have our due, provided we do not waver. I think I have clearly indicated that the qualified assistant is as valuable economically as the certificated teacher. If you agree with me, then you must also agree that it is not possible to pay the experienced qualified assistant 6*l.* per week (though he deserves it) unless we receive better remuneration for panel dispensing. Qualified assistants can settle the question once and for all by refusing to render service to private individuals, corporate bodies, or the State at an uneconomic salary.

ECONOMIST. (152/34.)

#### Emergency Medicine Supply.

SIR,—I must certainly plead not guilty to "Xrayser II.'s" charges (*C. & D.*, May 17, p. 57). True, so long as the pharmacy is open we solicit custom so far as ordinary business is concerned, but in the case of dispensing, especially panel dispensing, we render service. At any rate, I have never solicited custom after business hours, not wishing to get to the level of the man who cut a hole in his door-blind, and spent his leisure hours with his eye glued to it, in case he missed a customer. But, seriously, if the bell rings after hours you must either answer it or ignore it. If you ignore it, the supply of urgent medicine ceases; and if you answer it, it is extremely difficult to refuse to supply, as an ounce of castor oil may be very urgent in certain conditions. The line between weakness and strength is invisible, and we cross it unknowingly; once being crossed, *facilis est descensus*.

Yours faithfully,

KNIGHT BELL. (133/45.)

#### Venereal Disease Act.

SIR,—Under "Westminster Wisdom" (*C. & D.*, May 17, p. 54) I see that a grant was paid to the National Council for Combating Venereal Disease, for publicity work. Whilst admitting that education in these matters is necessary, and will probably go a long way to act as a deterrent to young adults, the manner in which it is carried out is, I think, extremely objectionable. The advertisements in newspapers, especially Sunday editions, which may fall into the hands of children, both boys and girls, are bad enough, but on descending the steps of a public convenience the other day I was confronted with a large placard in bold type, in which these diseases were called by their vulgar names. I should think advertisements of this nature would come under Section 5 of the Indecent Advertisements Act.

Yours faithfully,

SUBURBAN PHARMACIST. (159/37.)

### Subscribers' Symposium.

#### Uses for Gelatin.

E. V. P. (114/8) writes: I have a quantity of gelatin (fine leaf, white, and medium grades) left over from some bottle-capping composition I made recently, and should be glad of suggestions as to how the gelatin may be used up.

#### Photographic Developing and Fixing.

Replying to "Photo-Pharmacist" (*C. & D.*, May 31, p. 71), J. P. N. (174/31) writes: In my view the simplest methods of photographic developing and fixing on the large scale are the best. Use long, shallow wooden trays, well varnished. Length equal to a spool of twelve quarters. They are light and easy to handle. In my practice a hundred spools a day were developed by two girls, standing one on either side of the tray. A second tray held plain water, and a third the fixing solution. There must be no stint of developer, which should be M.Q. Save all fixing baths. My girls did an average of a hundred during the afternoon, and the spools were ready to take out about six o'clock. Provide a drying-place with a good draught to ensure all being really dry by the morning. As to actual labour saving, well, in the writer's opinion this is best achieved by carefully training the workers. My own plan was something like the following: Every post brought orders and spools, etc. These were entered in a book, which was ruled to give date, name and address, developing, printing, enlarging, and so on, date of despatch, remarks, and price. Work tickets were then filled up with the name and number, order, etc. The work ticket and spool were then put in an envelope, with the name of the customer outside, and the words "Develop only," "Develop and print," or "Enlargements." These were then sent into the work-room. When ready for work the girls would take all the envelopes and contents into the dark-room, and while one opened the spools the other would read out the name and number (consecutive) to be pencilled thereon. All spools were then put into a light-tight box until ready for actual operations. Meanwhile the envelopes and work tickets are put back in the work-room. In the morning the spools would be



sorted, cut up, and replaced in the envelopes. Those for "development only" are, of course, ready for sending off; the rest to be dealt with as ordered. Gaslight prints can be sent usually, which makes things easy most times. And when the operators get used to them—especially after developing the spools—they soon get to know the right exposures; briefly, the morning for prints and the afternoon for the developing. Other times, other work. A gross of bromide post-cards can be done quickly with a good lamp—electric—set about a foot from the bench; it should be enclosed in a cone-shape reflector and arranged so that the switch is easily workable. I found it necessary to have a gas illumination as well as electric—after a breakdown one day with the latter. When there are many orders the rules must be rigidly kept, and whatever is done with the printing the spools at least should be got through, leaving none over for the next day. One must be prepared to train the workers thoroughly, and it is a tiresome business unless the work is carefully planned out and the work-rooms suitable and roomy.

## Dispensing Difficulties and Notes.

### Freshly-prepared Calcium Lactate.

SIR,—I shall be obliged if you will give me your help in the following. The other day I had a prescription ordering calcium lactate 5ij., freshly prepared, in a 6-oz. mixture. I made the calcium lactate, but had to evaporate to dryness in order to weigh out the 2 drachms. As the prescription is likely to be repeated frequently I should like to know what quantity of acid. lactic. dilut. would be required to produce 3ij. calcium lactate, so that I could neutralise, filter, and use the solution, and so avoid the evaporation process.

Yours faithfully,

R. T. C. (147/20.)

[To prepare two drachms of calcium lactate in solution add 96 minims of lactic acid to about 5 oz. of distilled water, and add in portions 40 gr. of precipitated calcium carbonate, stirring to promote evolution of gas. When effervescence has ceased strain or filter as circumstances require. The Pharmacopoeia states the solubility of calcium lactate to be about 1 in 20 of water. This applies to the salt after it has been dried. When prepared as above the solution will retain about 1 in 16 provided no disturbing factor be introduced.]

### A Discoloured Mixture.

SIR,—The following prescription has been several times dispensed, and I should like to know if it is possible to produce a satisfactory result. Although I have tried several ways the result has always been the same—"violet ink":

Pot. chlor. ...	...	...	5j.
Tr. ferri perch. ...	...	...	5iiss.
Tr. camph. co. ...	...	...	5v. mxx.
Oxy. scillæ ...	...	...	5v. mxx.
Aq. ad ...	...	...	5viij.

Yours faithfully,

DONCASTER. (28/19.)

[Mix all the liquids together and use them to dissolve the chlorate of potash. This makes quite a nice mixture. There is always a tendency to develop a little colour in mixtures containing iron salts and acetic acid, but in this one, prepared as above directed, it is, according to our experience, very little in evidence—nothing like violet ink.]

## Miscellaneous Inquiries.

R. M. G. (166/44).—SHAMPOO-POWDER FOR DRY USE.—Sec C. & D., August 18, 1917, p. 56.

F. P. (162/6).—URINE-STAINS on a mattress and carpet are best removed by washing with soap and water, followed by solution of chlorinated lime. The colour of the carpet may be affected by the bleaching-powder.

W. L. (165/70).—HAIR-FIXING CREAM:

Powdered tragacanth ...	...	gr XL.
Essence of Parma violet ...	...	mL.
Rectified spirit ...	...	5iiss.
Glycerin ...	...	3j.
Distilled water to ...	...	5x.

Mix the essence and spirit, and with them damp the tragacanth; then add the glycerin and water, and shake well.

Ajax (167/68).—LANOLIN.—An abstract of the expired lanolin patent was given in the C. & D., March 20, 1915, p. 47, to which you should refer.

W. H. G. (165/39).—There are no patents covering the manufacture of Odol and Pebecco, but the names referred to still remain on the Register of Trade Marks as the property of alien enemies.

J. G. (162/71).—HAND-CLEANING PASTE.—The following is a paste which is employed for removing grease from the hands of motorists and mechanics:

Powdered glass ...	...	7 oz.
Waterglass ...	...	2 oz.
Pumice, in fine powder ...	...	1 oz.
Kaolin ...	...	10 oz.

Grind together and form into a paste, adding water or glycerin if needed.

S. T. P. (168/21).—The formulas for which you ask were given in the "Military Hospitals Formulary" in *The Chemist and Druggist Diary*, 1918. We cannot repeat them yet awhile.

R. C. T. (165/50).—CALCIUM SALTS IN URINE.—The relation of calcium excretion in the urine to disease is obscure and leaves abundant room for research. The ordinary urologist is hampered for want of material, but the laboratory of a children's hospital or institution for diseases of bones should provide sufficient cases where the chemistry of the urine can be conducted and the pathological condition of the patients studied concurrently, and much useful information obtained. The uncertainty of our knowledge, in such a term is admissible, is illustrated by the fact that the normal elimination of calcium is variously stated by different "authorities." One we take up says 0.25 to 0.35 gram per diem, and another 0.12 to 0.25; and while one writer states that calcium is increased in the urine in rickets, another says it is uninfluenced. Radiography often exhibits an absorption of calcium salts or an increase, particularly at joints, and it is easy to conceive that in osteo arthritis, osteo malacia, and a variety of bone diseases the normal calcium metabolism must be upset and the circulating lime salts (those in the blood and urinary system as distinguished from those in the digestive tract) must be increased or decreased. Information on these points can only be obtained where there are plenty of cases and concordant results can be compared. The isolated cases of ordinary practitioners are of little value. It is also only common sense to suggest that it would be wise to examine the blood of the patients as well. In both cases the insolubility of calcium oxalate is the principle adopted for the estimation. In the case of the blood the crystals deposited are counted against the blood corpuscles in a Thoma-Zeiss haemocytometer, the technique of which may be found in books on the subject. The urinary estimation is conducted as follows: A fairly large volume, say 200 c.c., of urine is precipitated by ammonia; the precipitate is collected and dissolved in dilute hydrochloric acid, avoiding excess. This solution, after the addition of a little sodium acetate, is then precipitated again with solution of ammonium oxalate and left for some hours in a warm place for the calcium oxalate to form. Collect on an ash-free filter, wash, dry, and ignite in a platinum crucible. The resulting calcium oxide is weighed or, if desired, is estimated volumetrically by adding excess of N/10 nitric acid and titrating back with N/10 alkali when each c.c. used = 0.0023 gram of CaO.

## Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," June 15, 1869.

George Webb Sandford.

We cannot allow this gentleman, six times President of the Pharmaceutical Society, to pass into comparative retirement without a word of notice. It will be conceded by all who have the interests of pharmacy at heart that the skill and determined energy with which he pursued his plans would amply have justified the wisdom of his election, even had not his efforts been rewarded with success. Elsewhere will be found the record of the rejoicings held partly in Mr. Sandford's honour, as also in commemoration of the recent establishment of pharmacy by law. Hard must have been the day to the one most concerned. There was a Council meeting, followed by the usual anniversary, the presentation of a testimonial, and a public dinner. The guest of the evening, doubtless, was not sorry when the sheets claimed him for their own. Testimonials in themselves are intrinsically worth little, save as the tangible expression of thoughts which cannot otherwise be conveyed.



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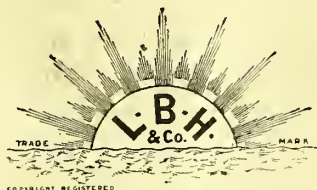
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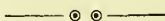
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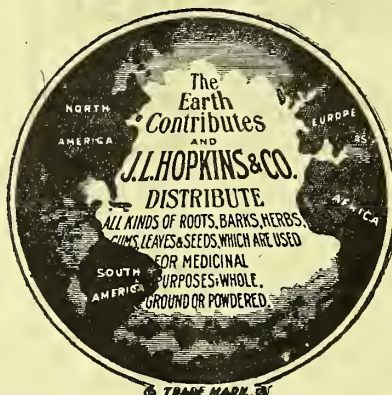
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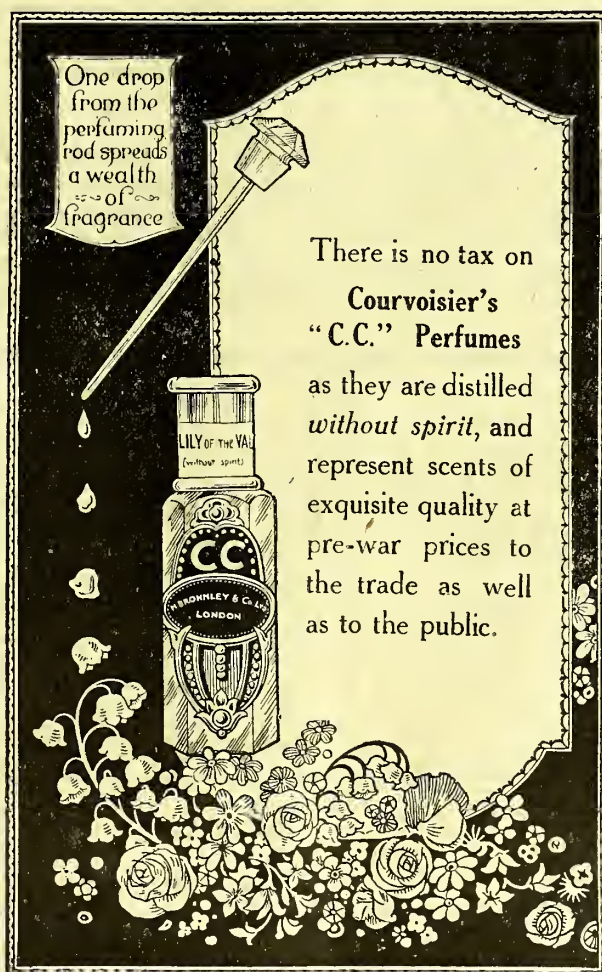
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100's, boxes	9/-	7/-	5/- per doz.

Cash with Order. Window Bills Free.

### HYGIENIC TEATS FREE.

With every order to the value of £5 we pack 6 dozen Transparent Hygienic Teats as Bonus, and a smart Business-Pulling Window Show with £10 lots in addition to Bonus Teats.

**Saccharin 550 Pure.** In Original Containers.  
150/- per lb. Any Quantity Post Paid.

**WALTON, Chemist, BATLEY.**

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Made from Monsanto Saccharin, each guaranteed to contain ½-gr. 330 in 1, 7,000 to the lb.

1 lb., 50/- 7 lb., @ 48/- 14 lb., @ 46/-

In envelopes each containing 100 @ 9/- per doz.

¼ gr., 1 lb. 27/-, 7 lb. 25/-, 14 lb. 23/-

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Carriage Paid.

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Certified FOOD COLOURS  
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Aspirin Tablets**  
**9/- per 1000**

Each tablet contains 5 gr. B.P. Aspirin.  
As supplied by us to the Military Hospitals.  
Bottles—25s, 4/6; 50s, 8/-; 100s, 14/9.

**BRITISH  
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**\*3 grain 550 in 1.**

In packets or bottles of 100, 200 or 500, and in Bulk. Special quotations for quantities.

All drugs are tested, and tablets made in our own factories, and guaranteed by

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1s. 3d. size	...	...	...	...	10s. 6d. per doz. net.
3s. 0d. "	...	...	...	...	26s. 6d. " "
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THE BEST. THE CHEAPEST.

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VANILLIN. MILK SUGAR.  
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### Wanted to Purchase.

Sparteine Sulphate.  
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Every tablet guaranteed to contain gr. 5 PURE ASPIRIN, B.P., m.p. 135°5, as supplied by us on contract to the Allied Armies.

Packed for the Trade, in unlabelled bottles, as follows:

25's—4/6 per dozen. 50's—8/3 per dozen. 100's—14/9 per dozen.  
Bulk, 8/9 per 1000.

(Stock labels supplied if desired.)

ASPIRIN, B.P., superfine quality, 7/6 per lb.

SPECIAL QUOTATIONS FOR QUANTITIES.

SEND FOR SAMPLES.

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VERY FINEST QUALITY.

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An Attractive  
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Display Box.

**100's, 15/-  
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**50's, 8/6  
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One or more of  
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free according to  
the requirements  
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**1000, 9/-**

SAMPLES  
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SPECIAL  
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FOR LARGE  
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DESIGN.

*A selection of 30 varieties of labels*

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IN BULK  
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5 grains, 3/- per 1000, for not  
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Special price for cwt. lots.

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ALL GOODS OF GUARANTEED STRENGTH AND QUALITY.

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## LIQUID BARKOLA COMPOUND

**Wholesale 26/- per doz.,  
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Each bottle (1 oz.) carries instructions to the chemist  
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Liq. Barkola Comp., 1 oz.; Tincture of  
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A good "sundry" for Chemists. In regular  
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**Antiseptic Throat  
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Sold in Tablets to the Public  
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Less than 1 gross, 14/- doz.;  
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TOOTH  
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1/- per box.

To the trade 8/- per dozen.  
7/9 per dozen in 6 dozen lots.  
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**For Cleaning  
Artificial Teeth  
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Keeps the mouth healthy and  
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Sold to the Public,  
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THE LARGER SIZES AT GROSS RATES  
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**MINIMUM RETAIL PRICE  
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*Protected Price at Face Value  
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HONEY JARS, PANELLED  
VARNISH BOTTLES, LIMES,  
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WRITE FOR PRICES, GIVING PARTI-  
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After being for long practically without stocks, we have now just received a limited re-starting lot, which will be equitably and proportionately distributed.

### PRICES.

Retail.			Trade.
9d.	...	...	7/7 per doz.
1/3	...	...	12/8 " "
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Less 5% for payment at 1 month.  
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The Trade may therefore now order, through their Wholesalers or direct from

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Per **10/-** Gallon.

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cold water.

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Waterproof  
Bags—  
14 lb. to 1 cwt.  
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1 lb., 2 lb. & 4 lb.

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**Cleans immediately**, with NO exertion,  
Baths, Marble, Paint Work of every description,  
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**Removes Grease** or Dirt from the Hands, and  
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**"CASSO" has no faults**, it does not deteriorate  
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scratch the finest enamel work.

**"CASSO"** is packed in 1-lb. Tins retailing at 1/-,  
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to any customer who is not satisfied.

**"CASSO"** shows a GOOD Profit to the Retailer.

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## Toilet Specialties.

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PROLACTUM . . .	for the lips . . .	10/-	1/-
PARSIDIUM JELLY	for wrinkles . . .	10/-	1/-
ALLACITE OF ORANGEBLOSSOM }	a dressing cream . . .	22/6	2/6
BORANIUM . . .	a hair tonic . . .	22/6	2/6
CLEMINITE . . .	for a face lotion . . .	22/6	2/6
COLLIANDUM . . .	for a face tint . . .	22/6	2/6
ONALITE . . .	a foot powder . . .	22/6	2/6
PERGOL. . . .	a deodorant . . .	22/6	2/6
STALLAX . . .	for a shampoo . . .	22/6	2/6
JETTALINE . . .	for clearing the skin . . .	31/6	3/6
PHEMINOL. . . .	a depilatory . . .	36/-	4/-
MENNALINE . . .	for the eyelashes . . .	36/-	4/-
MERCOLIZED WAX	a face cream . . .	31/6	3/6
STYMOL . . . .	{ for oily complexions } { and blackheads }	36/-	4/-
BARSYDE . . . .	dandruff eradicator . . .	22/6	2/6
TAMMALITE . . .	for grey and faded hair . . .	22/6	2/6
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**P.A.T.A. NOTICE.**

113 Temple Chambers, E.C. 4.

The following price changes will come in force as from the date of this issue:

**Allenburys' Malted Food, No. 3.**

The revised prices and sizes, viz 1/6 and 3/- for the above, notified in the May "Anti-Cutting Record," are new packings and sizes, and will replace the 1/3 and 2/6 (War Emergency) sizes when stocks of same are exhausted. Now that stocks of the War Emergency packages have all been used up by the makers, Allenburys' Malted Food No. 3 will in future be sold at the revised prices of 1/6 and 3/-, but they desire wholesalers and retailers to sell the remainder of their stocks of the 1/3 and 2/6 War Emergency sizes at the old prices.

**Parke, Davis & Co.'s Preps.**

Advertised Price.	Minimum Retail Price.	Minimum Wholesale Price.
2/6 Euthymol Liquid Dentifrice	2/6	21/5 doz.
4/- " " "	4/-	33/9 "

A

**PHILIP JOSEPHS  
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Try One!

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Two Gross "PENNY" Packets sold for 30/- show over 50% Profit on purchase price 21/-, less 2½% delivered.

**PRICE LIST.**

	Advertised Price Per doz.	Minimum Retail. Per doz.	Wholesale Per gross.
"PENNY" PACKETS (12 in box) 1/6	1/6	1/3	10/6
Twopenny Packets (12 in box) ...	2/-	2/-	19/-
Boxes, about 1½ lb. ...	Each. 4d.	Each. 4d.	Per doz. 3/4
" " 3½ " ...	8d.	8d.	6/8
" " 7 " ...	1/2	1/2	11/6
" " 14 " ...	2/-	2/-	20/-

Four 7-lb. Boxes CARRIAGE PAID for 4/-

Six 7-lb. Boxes CARRIAGE PAID at 11/6 per doz.

Assorted Orders to value of 10/-, CARRIAGE PAID, any of above sizes.

No. stock to hold	Bags of 28 lb. ...	Each. 3/6	Each. 3/6	Each. 1
" " 56 " ...	6/6	6/6	5/6	
" " 1 cwt. ...	12/-	12/-	10/-	

Carriage Paid.

2½% Discount for Cash on all orders of 20/- and upwards.  
Packing Cases extra and returnable. Half value allowed if not returned.

**TIDMAN & SON, Ltd., London, E. (Members of P.A.T.A.)**

# CARAMEL COLOURING

(Sacch. Ust.)

For ALL PURPOSES.

PERFECT PURITY.  
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IMMEDIATE DELIVERY to Manufacturers and Wholesale buyers only.

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**EUCALYPTUS OIL**  
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Eucalyptol Content ... 70/80%  
 Optical Rotation ... 0 to 1  
 Specific Gravity ... '919 to '928  
 Absolutely Free from Phellandrine.  
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 Eucalyptus Oil Distillers,  
**VICTORIA, AUSTRALIA.**

New Postal Address—Cables—"Burnside Company,  
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In two strengths—Ordinary and Strong.

D.D.D. Soap ... 1/- tab. M.R.P. Face Value, per doz. @ 8/3  
 " Shaving Soap ... 1/6 stick " " 13/6  
 " Vanishing Cream 2/6 jar " " 22/6  
 " Shampoo Powders 2/6 box " " 22/6

Carriage paid to any part of the United Kingdom.

Showcards, &c., Supplied Free.

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**INDIAN PERFUME BRICK**

KEEPS AWAY MOTH.  
 LASTING & FRAGRANT.

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FOR LINEN CUPBOARD AND WARDROBE.

Retail Price, 6d.

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A few reams Strong Brown Tissue,  
18×28 @ 12/6. 5 reams carr. paid.  
Brown from 45/- per ream. Swedish  
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Quick Seller. Big Profits. Over 40 Years' Reputation.  
"ABDINE" is the most popular Health Drink. Superior to all Mineral  
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Bone handles, 4 rows	...	Assortment	B	C	D
Celluloid ,, ,,	...	per doz.	8/-	9/-	10/6
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Bone handles, hog hair	...	per doz.	16/-
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Satinwood back, real whalebone, 5 rows	...	per doz.	33/-
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5% discount allowed for prompt cash off above prices.

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You will admit that articles of the worth of

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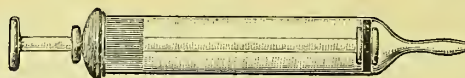
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Urethra and Vagina Glass Syringes  
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and any other LAMP-BLOWN GLASSWARE

FOR THE WHOLESALE TRADE ONLY

M. J. FECHER, LTD., *Ilex Works*,  
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(9)



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SUPERIOR ENGLISH MANUFACTURE. FAST WOVEN EDGES

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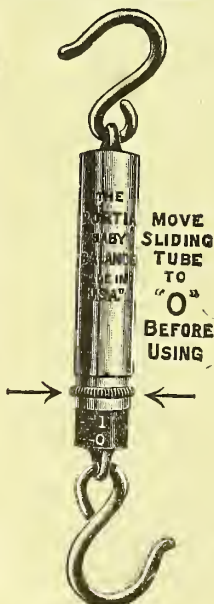
Extremely Elastic, but contains no Rubber.

Invaluable for binding. Displaces rubber and elastic web. More durable and one-third the cost. The Norwich Crepe Bandages containing wool, will provide warmth, and do not absorb grease readily. Self-clinging and self-adjusting. Perfectly cleansed, sterilised, and resiliency entirely restored by washing in hot soft water (with addition of a little soap). The edges will not fray out nor ravel. Made and supplied to the leading wholesale houses, neatly wrapped in labelled packages. Commended by the medical and nursing professions. Send for prices and samples to the sole manufacturers—

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(Regd.)

NET WEIGHT

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Weighs up to 15 lb.

Price	Retail
30/-	3/6
dozen.	each.

Owing to restricted imports this line has been off the market for some time, and we think that many friends will be glad of the opportunity of renewing their stock.

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Obtainable through all Wholesale Houses.

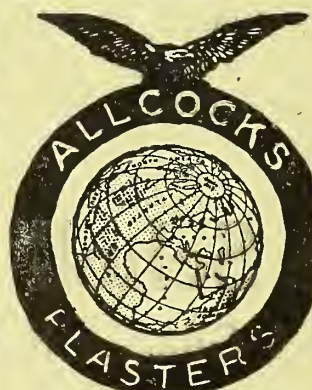
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Allcock's Plasters  
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The  
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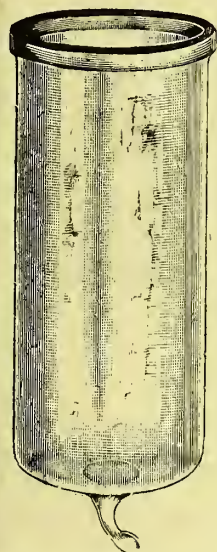
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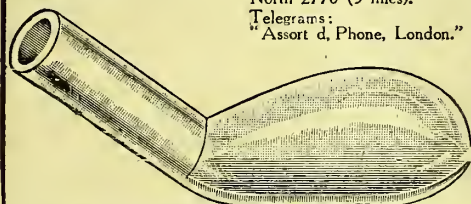
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FOR  
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BOXES OF 1 doz. 1/6 packets, 12/- per box. On P.A.T.A. list.

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WHOLESALE ONLY—PROMPT DELIVERY.

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### A PROFITABLE PROPOSITION.

## "FLUZO" POWDERS

(Trade Mark, Registered).

For Headache, Toothache, Neuralgia, and Rheumatism.  
Sold at 1/3 per box of 12 powders, or loose at 2d. each;  
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Avertising matter with all orders, and Bonus for Window Shows.  
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**For Rats & Mice.**

*Trade Terms & Full Particulars from  
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## Dr. MACKENZIE'S SMELLING BOTTLES.



To conform with the Patent Medicine Duty, and allow for increased all-round costs to both Manufacturers and Retailers, the new minimum P.A.T.A. Retail Price will be

**2/-**

The New Price to Retailers will be

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*Dr. Mackenzie's Smelling Bottles are being more extensively advertised than ever before, and it is hoped that Retailers will assist by displaying the goods.*



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Bands and Tapes.

"FLYSAC." "VIPER." "VAMPIRE."

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For Rats, Mice, etc.

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For Fly Papers and Reels.

*Guaranteed to retain its stickiness  
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### LANCASHIRE Condition & Worm Powder for Horses

2/- retail ; 18/- doz. wholesale  
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HAWLEY'S I.K. SEASON IS  
NOW IN FULL SWING.  
FILL UP YOUR STOCKS.

Prices 4d., 8d., 1/3, 4/6

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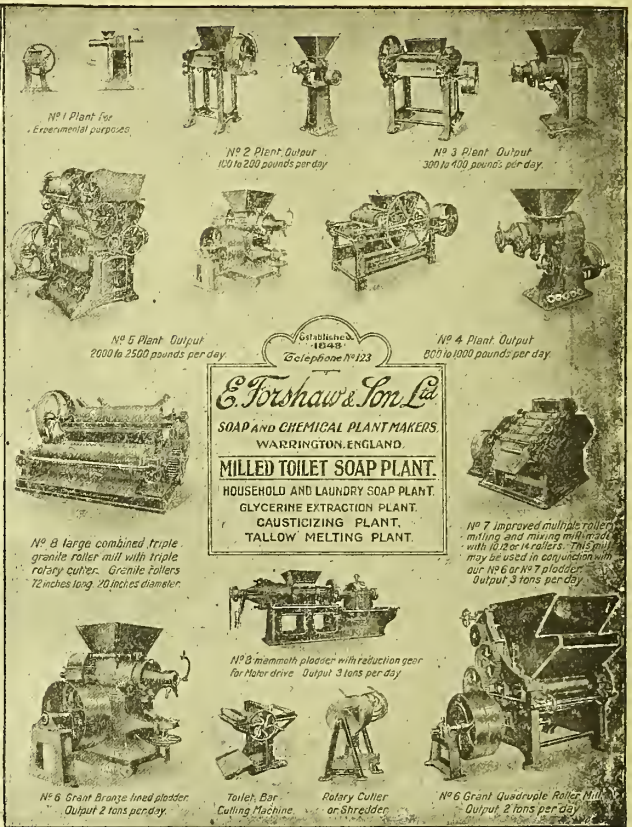
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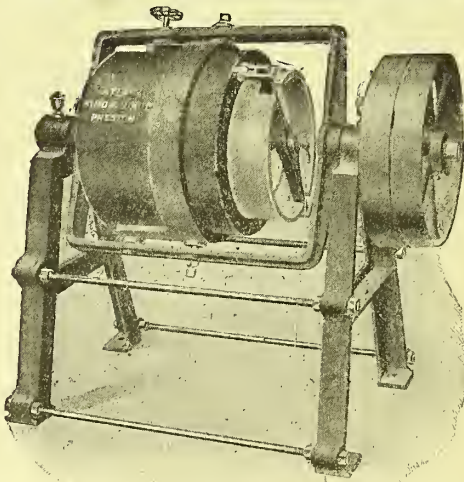
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IRON CYLINDERS, PORCELAIN OR QUARTZ-LINED.  
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We are now able to supply  
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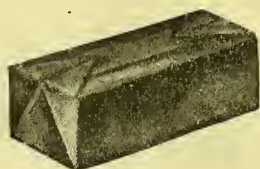
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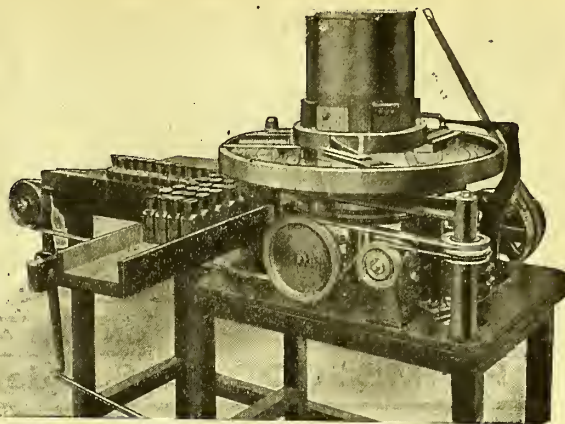
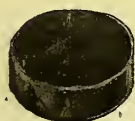
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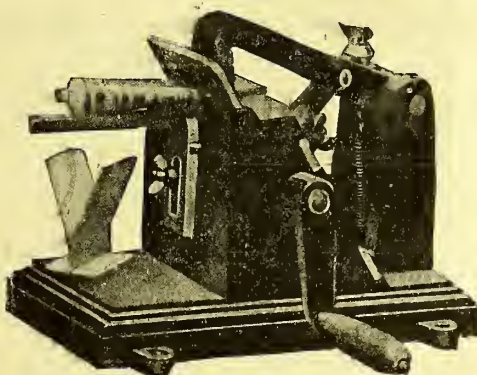
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*The* "CENTRAC"

## Collapsible Tube Filling and Closing Machines



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*Inquiries Solicited.*


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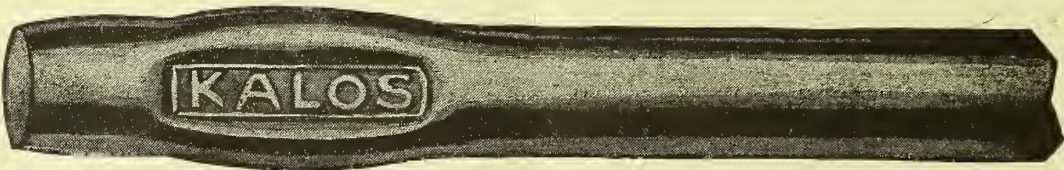
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IS THE SUPREME QUALITY  
WITHOUT EXAGGERATED PRICE.

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FOR ALL CAPS AND LIDS.

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In tins, retailing at **1/6, 3/- and 7/6** each.

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**Dr. Allinson's Food Preparations**

FOR ALL AGES AND CONDITIONS OF HEALTH AT FIRM AND PROTECTED PRICES.

Food for Babies, Prepared Barley,  
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See Trade Mark "T. R. Allinson" on all our goods—None Genuine Without.

**SPECIAL NOTICE.**

We issue a list of WHOLESALE HOUSES who keep above in stock; if for any reason you have difficulty in obtaining supplies, please send postcard direct to us, and a list will be sent to you by return.

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All advertising matter—Booklets, Window Displays  
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**SUGAR OF MILK. CREAM OF TARTAR.**  
**DRIED WHOLE EGG. DRIED HEN YOLK.**  
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**MILK POWDER. HONEY.**

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FLOUR, BREAD, BISCUITS, FOOD, RUSKS, COCOA, Etc.  
Also Foods for Anemic, Dyspeptic, Invalid and Aged People  
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INFANTS' FOODS packed under Chemists' "OWN NAMES."

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Manufacturers and Wholesale Suppliers of everything for  
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Retail Prices, in tins, 14/-. 27/-. and 54/- per dozen.

Liberal Trade Discounts.

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# Aquaperia

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P.A.T.A.

2/- per doz.  
allowed for  
Empty Bottles  
returned  
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Standardised & Bottled by CAMWAL, Ltd., at their Spring at Harrogate.  
Supplants Apenta, Hunyadi-Janos and Enemy Waters of similar Character.

Of all Wholesale Houses,  
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Special Export F.O.B.  
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WHOLESALE.

24/- per gallon tin  
12/6 " " quart jar  
6/3 " " pint " "  
3/- " " " "  
1/7 " " " "

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29/- per gallon tin  
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2/- " " " "

*These prices include containers and carriage paid.*

VIKING RENNET and ANNATTO must not be resold to Cheesemakers at more or less than the retail prices stated above.  
VIKING ESSENCE of RENNET JUNKET TABLETS, and JUNKET POWDER.

*Prices on Application.*

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12/6 per gallon jar  
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15/6 per gallon jar  
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## EXTRACT OF MEAT

(IN BULK).

### DIRECT IMPORTER

FROM

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IN VARIOUS QUALITIES.

*I invite your Inquiries.*

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## Recommend it for Convalescence



Doctors prescribe  
Turtle Soup in all  
cases where the  
patient cannot  
retain any other  
nutriment.

## FREEMAN'S REAL TURTLE EXTRACT

is the real meat of selected West Indian Turtles, compressed into handy tablets; it provides all the delicacy and nourishment of soup made from fresh killed turtles, and is quickly prepared as it requires nothing but boiling water.

For hospitals, nursing and convalescent homes it can be strongly recommended as the best, safest and handiest invigorator obtainable.

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FINE LEAF GELATINE  
PURE CALF

**"ALBION" BRAND**

( In 1 lb. Packets.  
112 × 1 lb. Packets to Case.)

MADE IN ENGLAND.

FINE CRYSTAL GELATINES.  
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*Samples on application from*

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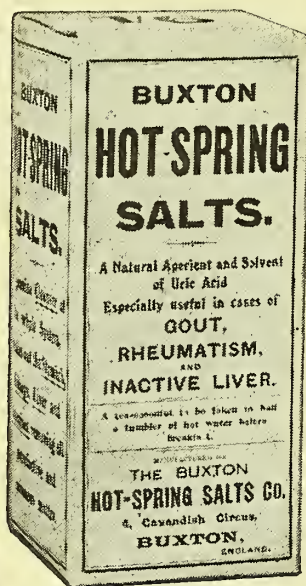
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Sells on sight.  
A sound Article.  
Unlike all others.  
A phenomenal repeater  
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Now extensively ad-  
vertised.

Wholesale through  
Messrs. JOHN  
THOMPSON & CO., Ltd.  
LIVERPOOL  
and principal whole-  
salers.

An opening order for  
1 doz., 13/6, sent with  
showcard, carr. paid,  
to any town in the  
British Isles direct  
from—

**THE BUXTON HOT-SPRING SALTS CO.**  
4 Cavendish Circus,  
BUXTON, DERBYSHIRE.

## NOTICE.

We wish to apologise to both the  
Wholesale and Retail Chemists'  
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promptly supply our Proprietary  
Article "**Licoricine**" for Coughs  
and Colds, owing to the difficulty  
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materials.

Having removed to Newcastle-on-  
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for distribution, we hope in the near  
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creased demand.

*Please note all communications should now  
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LIMITED,  
Tower Works, NEWCASTLE-ON-TYNE.



**LIQ. SANTAL FLAV.  
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(Hewlett's)

Packed for dispensing only,  
in 10, 22, 40 & 90 oz. bottles.

"Experience has shown this  
preparation to possess the  
same efficacy as Santal Oil  
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water, and has a taste by no  
means disagreeable."

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Of proved utility in Nervous Diseases,  
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Digestive Organs and Nervous System.

A Valuable Tonic Food for Children.

"It is of high nutritive value en-  
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No. 1.	1½ oz. Tin ..	9/- per doz.
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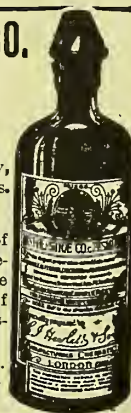
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"Obviously likely to be of  
much advantage in the fre-  
quent cases of irritative  
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## THE CHEMISTS' BRAND.

**'The Lancet' says: 'Of Standard Purity'**

Recommended also by *The British Medical Journal, Health, The Chemist and Druggist, Food and Sanitation.*

Ask for SHOWCARDS and HANDBILLS. To be obtained of all Wholesale Houses.

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**'VIN-IRO'***"The Wine that Strengthens."*

In great demand everywhere. "VIN-IRO" shows a good profit, and is regarded by competent judges to be the finest Tonic Wine offered to the public.

WHOLESALE PRICES ... Large Bottles, 42/- per doz.

" " " Half " 23/- "

Carriage paid.

RETAIL PRICES ... Large size, 4/6 per bottle.

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Showcards supplied.

**Meat and Malt Wine**

Prepared from **Grand Alto Douro Fort.** Choice Extract of Beef, and Fine English Barley Malt.

Large Bottles ... 54/- per doz.

Minimum quantity, 3 doz. lots. Carriage paid.

Packed under three varieties of labels.

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You can now obtain

**'Prana'**  
**Sparklet Bulbs**  
**(Type 'C')**

for use with 'C' or 'D' Syphons

**Price 33/- per doz. boxes**  
**to retail @ 3/6 each.**

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*Empty 'D' bulbs should be returned for refilling.*

*'B' bulbs will be on sale again at an early date.*

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is a high-class Pharmaceutical Wine, containing all the food elements of Meat, Malt and Unfermented Grape Juice.

Unsurpassable for Influenza; invaluable for Anæmia, Lassitude, Neuralgia, Nerve and kindred troubles.

Winox will stand any climate, and contains no harmful drugs.

Price 5/6 per bottle retail. Chemists who do not already stock Winox should apply for price to WINOX LTD., Richmond, Surrey.

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*regret delay in executing orders owing to the huge demand for*

**G.O. LEMONADE**

*We are taking larger premises to cope with the rush, and hope to resume prompt delivery at an early date.*

**The GREENWICH LEMONADE Co.**

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209 Trafalgar Road, GREENWICH, S.E. 10.



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## IT'S MASON'S

### The Drink for the Masses



Millions of glasses used daily  
by workers all over the Empire

Please allow us to Sample and Quote—

**Citrate Magnesia**  
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**Salines**  
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From the  
Heart  
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Malvern  
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WATERS**

—STILL AND SPARKLING—

Nature's purest waters—bubbling up out of a rock, midst the sweet pure air of the MALVERN HILLS. These celebrated Waters are bottled only at the historic St. Ann's Spring, Malvern, and none better can be obtained for use in the sick room.

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Wholesale and Export Drug Merchants,  
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INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	P.A.T.A.	Protected Retail Price.	Dozen Net
* LOSALL'S SALT (well advertised), tins	9d.		6/6
* " " " " " "	1/6		13/-
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*\* Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.*

**LOSALL'S COMPOUND SULPHUR SOAP.**

	Box.	Doz.
A valuable emollient medicated skin soap, especially suitable for use in Eczema. 3 Tablets in a box at 8d. each tablet.	2/-	18/-

## PURE CHEMICALS for PHOTOGRAPHY

AMIDOL . . . . .	1-lb. in 19/-, 7 @ 18/-	
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PYROGALLIC . Cryst. . . . .	" 15/-	14/6
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Acid Citric, Alum, Ammon. Bromide, Ammon. Sulphocyanide, Ferr. Ammon. Cit., Pot. Bromide, Pot. Ferriocyanide, Pot. Citrate, Pot. Metabisulph., Pot. Oxalate, Soda Bromide, Soda Carb., Soda Hypo., Soda Sulphide, Soda Sulphite, etc. etc.

**At low prices. Packed in bulk or bottles**

**CHAS. ZIMMERMANN & CO.**  
(Photographic) LTD.

**13 BARTLETT'S BUILDINGS, LONDON, E.C. 4**

Monthly List mailed on request.

FINEST **BLACKS** AND  
**COLOURS**  
 (ALL SHADES)

**CARAMEL  
 COLOUR**

IN POWDER.

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Guaranteed  
 Harmless.

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**50**

times the concentration  
 of Liquid Caramel.

*Sample on application.*

Soluble in

WATER	SPIRIT
OIL	TURPS
WAX	BENZOLINE
GLYCERINE	NAPHTHA
PETROLEUM	CREOSOTE

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IN FACT—ANYTHING.

**BLACK FOR INK.**

**MARKING INK.**

**ETERNITE**

A combined Stain and  
 Preservative for Wood.

**HOUSEHOLD DYES.**

**RHEUMSOL BATH SALTS**

in 1/- Tins.

**WILLIAMS BROS. & CO.**

Hounslow, Middlesex.



**FREDK. FINK & CO.,**

10 & 11 MINCING LANE, LONDON, E.C.  
SPECIALITIES.—Gums Arabic and  
Tragacanth as imported or finely powdered.

**PRECIPITATED CHALK.**

Lightest and Whitest, also Purest Dense.

APPLY TO

**AUG. LEVERMORE & CO. Ltd.,** 8-10 Ct. St. Helens,  
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Telegrams: "LEVERMORE LONDON." Telephone: 4613 Central.

**SHADEINE**  
FOR COLOURING GREY HAIR

This popular article is largely advertised  
and stocked by all Wholesale Houses

Trial size 8d., per post 10½d. Medium, 1/4, per  
post 1/7; Large, 3/6, per post 4/-  
8d. size 6/-doz.; 1/4 size 12/-doz. 3/6 size, 33/-doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

**CACHETS "FINOT"**

(White or Coloured),

With inscriptions in any desired  
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"Beautifully made and the inscriptions give them  
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Have you yours on show?

Will send at once  
6 dozen with 1 dozen  
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Carriage Paid.

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## “Regnas” Cloth Ball

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For white flannels and khaki uniform, the finishing touch is often marred by some spot, always in a conspicuous place, but easily removed with “Regnas” Cloth Ball. Be ready to supply in a hurry.

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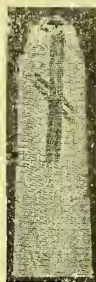
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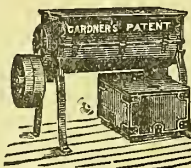
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*JULY 31st, 1918.*

At the request of a large number of Chemists throughout the Country we have decided, from the above date, to fix the retail prices of PHOSFERINE, and all our other Proprietary Medicines, at face value, viz.:

**1/3, 3/-, 5/- and 12/-**

The Wholesale Prices will be as follows:

1/3 size	-	-	12/-	per doz., net.
3/-	"	-	30/-	" "
5/-	"	-	48/6	" "
12/-	"	-	114/-	" "

Against the conditional £5 worth of Phosferine being taken, a bonus of 10/6 will be allowed for a Phosferine Window Display of not less than 14 days.

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# LISTEN!

How many of the Proprietaries that you sell yield

## 36% PROFIT?

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**THIS IS A £3 BONUS ORDER, and EXPLAINS ITSELF.**

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Outlay £2 . 18 . 5	PROFIT £1 . 12 . 10 = 56% on cost.	
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THIS MEANS  $5\frac{1}{4}$ d. (nearly  $5\frac{1}{2}$ d.) on the 1/3 size.

"	"	$1/0\frac{1}{2}$ d.	on the	2/11 "
"	"	$1/9\frac{1}{2}$ d.	"	5/- "

**THE WINDOW SHOW** (takes 2 minutes to put in.)



15 inches

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Please send a card for full particulars to the SOLE MAKERS:

**THOMPSON & CAPPER, LTD.**  
**Manesty Buildings, College Lane, LIVERPOOL.**  
 ESTABLISHED 1843.



# THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, JUNE 7, 1919.

## EARLIER CLOSING FOR PRESS.

WILL intending Advertisers please note that until further notice all Advertisements for THE CHEMIST AND DRUGGIST SUPPLEMENT must be in the Publisher's hands not later than

### FIRST POST THURSDAY MORNING,

to be available for the issue published in that particular week. Owing to restricted postal deliveries it is advisable to *p. st* all communications on the Tuesday preceding the date of issue. Advertisements received after the time indicated will be inserted in the following week's issue.

## The Chemist and Druggist Supplement Advertisement Tariff.

**Businesses Wanted and for Disposal, Premises to Let, Goods and Shopfittings for Sale, and Agencies:** 4/6 for 50 words, every additional 10 words or less, 6d.

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**SITUATIONS WANTED:** 1/- for 12 words; every additional 10 words or less, 6d.

**Legal Notices, Tenders, Auctions,** and all specially spaced announcements, 9d. per line (average line=10 words).

**Miscellaneous (Wholesalers') Section,** for odd and second-hand lots; 7/- for 60 words; 6d. for every additional 10 words or less.

**EXCHANGE COLUMN** (for Retailers, etc.). **One penny per word;** minimum one shilling.

### BOX NUMBER.

In each case replies may be addressed to a registered number or non-de-plume, c/o this Office, at a charge of 6d extra for each advertisement.

### PAYMENT.

All advertisements are prepaid, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

THE CHEMIST AND DRUGGIST, 42 Cannon Street, LONDON, E.C. 4.

Telephone: Central 3617 (3 lines).

Telegrams: "Chemicus, Cannon, London" (2 words).

# CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON (Northern Suburb).—Good middle-class Business, chiefly ready money; returns upwards of £2,000; attractive well-fitted shop; capital residence; vendor's own property; price about £1,000.

2.—FINSBURY PARK (Near).—Brisk Retail Business; returns present rate, over £2,000 at good prices; well-appointed shop and comfortable residence; vendor's own property; price £1,400.

3.—WEST END.—Old-established Business; Dispensing and Retail; unique position; returns upwards of £2,500; profits good; large residence with private entrance; price about £1,000.

4.—LONDON, W.—Old-established Business; Retail and Dispensing; returns £1,500 at good prices; roomy shop, with residence; held on lease; price £850.

5.—LONDON, N.W.—Dispensing and Retail Business; vendor retiring; returns between £2,000 and £3,000; net profit over £700; well-appointed shop and large residence; new lease; price £1,500 or valuation terms.

6.—SOUTH KENSINGTON.—Very old-established Business; present hands 50 years; now retiring; returns £1,500, present rate; scope for development under energetic management; price £600.

7.—HIGHBURY (Near).—Ready-money Business; returns, present rate, £2,000; net profit 25 per cent.; rent £60; new lease; price £850.

8.—SURREY.—Old-established Business, chiefly ready money; returns £1,640; comfortable residence; rice garden; price £775.

9.—POPULAR HEALTH RESORT.—Good-class Retail and Dispensing Business; returns exceed £3,000; convenient residence; held on lease; further details on application; banker's reference will facilitate business.

10.—CHELTENHAM.—Good-class Business for disposal through death; returns, between £1,200 and £1,300, with scope for extension; well-fitted shop and large residence; rent £55; for an immediate sale less than the value of stock and fixtures will be accepted.

11.—HOME COUNTY.—Dispensing and Retail Business; corner position in main thoroughfare; returns exceed £3,000; net profit between £850 and £900; large shop and comfortable residence; price about £1,900.

12.—MIDLANDS (Large Manufacturing Town).—Old-established Business; Retail and Wholesale in packed goods; gross receipts exceed £8,000, and during the past three years the average gross profit amounted to £2,031; the premises are held on long lease at a rental of £60; price about £3,000; a banker's reference will facilitate business.

13.—LANCASHIRE (Popular Health Resort).—Cash Retail Business; good position; returns £3,500; net profit over £900; the turnover might be materially increased under qualified management; further details on application.

14.—STAFFS.—Ready-money Retail with N.H.I. Dispensing; established many years; returns last year £2,456; full investigation invited; rent £30; offer wanted.

## VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasise the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.



# BRETT & CO.

*Transfer Agents & Valuers,*  
73 LAUREL ROAD, LEICESTER.

## BUSINESSES OF ALL KINDS WANTED.

## BERDOE & FISH

**VALUERS & TRANSFER AGENTS**

35 Jewry Street, Fenchurch Street, E.C.3.

Telephone: 1809 CENTRAL.

**NO CHARGE TO PURCHASERS.**

1.—EAST COAST.—Good-class Retail, Dispensing and Photographic, in select seaside resort; returns nearly £1,400 increasing; *net profit* £422; pre-war returns £1,800; good house and Pharmacy; price £100 and valuation; in all about £850; personally recommended.

2.—MIDLANDS.—Good-class Retail and Dispensing in large important town; central position; returns over £3,000; can easily be made do £5,000, handsome Pharmacy; fully stocked; price £1,550; part can remain.

3.—SURREY.—Unopposed Light Retail, pleasantly situated 20 miles out; returns about £1,650; good house and garden; well stocked; books kept; price £775, or valuation terms arranged.

4.—BIRMINGHAM.—Working-class Cash Retail; returns average £40 weekly; good profits; plenty of scope; low rent; price for quick sale only £500 cash.

5.—SOUTH LONDON (Close to City).—Brisk Cash Business for Disposal; returns nearly £40 a week; good profits; splendid corner position in busy main road; fully stocked; good modern premises; price £300, and stock at valuation.

6.—LONDON, S.E. (10 Miles Out).—Cash Retail and Prescribing Business; returns £1,000; *net profit* £290; moderate rent; on long lease; price £375; full value offered.

7.—LONDON, N.—Light Family Retail and Dispensing, with good Optical connection; returns £1,400, increasing; *net profit* about £400; well fitted and stocked; small house; price £750, or near offer; recommended.

8.—LONDON, E.—Old-established Light Retail, with little Dentistry; same hands many years; retiring; returns £1,050; full prices; *net profit* £500; low rent; no immediate opposition; price £700 or offer.

## BUSINESSES WANTED.

We are in immediate want of sound concerns, returning up to £3,000, in town or country, especially South Coast, Midlands, and North; cash buyers waiting. Intending vendors are cordially invited to correspond. Terms sent on application. Established 1870.

## APPRENTICESHIPS.

4s. 6d. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

**WANTED**, to Apprentice a well-educated Youth, age 18, passed Prelim., indoors, in a good-class business; London or provincial town. "Wilson" (191/80), Office of this Paper.

## PARTNERSHIPS.

**A**CTIVE Partner for Wholesale Manufacturing business wanted; large profits and good connection; supplying Wholesale Sundries houses, Merchants, Chemists, Hairdressers, etc.; £1,000 required; also assistance in Manufacturing or Traveling; smaller capital considered with suitable applicant; large scope for developing high-class business. Full particulars to "Alus" (188/26), Office of this Paper.

## PARSON C. BAKER

(Pharmaceutical Chemist),

**Trade Valuer & Transfer Agent.**

Recommended by The British Drug Houses, Ltd.; Messrs. Meggeson & Co.; Barclay & Sons, Ltd.

Valuer to the Association of Manufacturing Chemists.

**4 Cyprus Road, Church End, N. 3.**

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*Surgeon's & Chemist's Valuer,*

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**QUEEN STREET - CARDIFF.**

**SPECIAL TERMS FOR STOCKTAKING.**

ESTABLISHED 1885.

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Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

**A**SIA MINOR was overflooded by German Chemicals and Proprietaries in pre-war times; now that the German octopus is dead, it is the proper time to introduce British goods; a well-established firm at Smyrna desires to Represent Manufacturers of Proprietaries, Pharmaceutical Preparations, and Chemical Products for all industries. Apply 148/26, Office of this Paper.

**P**OLAND AND SOUTH RUSSIA.—A French gentleman having been established 20 years in Petrograd for the sale of Patent Medicines and Wholesale Drugs, well-known by all Doctors and Wholesale houses, wishing to undertake a journey to Poland, Crimea, Caucasus, etc., desires Representation of first-class British firms. Pommier, 2 rue des Rosiers, Paris.

**P**ORTUGAL.—Well-established firm at Lisbon with very good connection among dealers in Chemicals and Drug Products desires to Represent first-class houses manufacturing Ink Powders, Chemical Colours, and Chemical Products generally, for all industries; successful results guaranteed; good references. Address 17/15, Office of this Paper.

**S**OUTH AFRICA.—Dyes, Artificial Manures, Heavy Chemicals, Celluloid Manufactures, Brushes, Cotton Wool, Lint, Dressings, Scientific Instruments, special lines. If you want to be represented in any of the above by an active, keen, young man who knows the country and will sell the goods, write to C. Gordon Davies, 102 New Bond Street, W. 1.

**S**WITZERLAND.—An old-established well-introduced Wholesale Manufacturing firm with large connections desire relations with a first-class British concern of Chemical and Pharmaceutical articles for pushing them in Switzerland and other countries if necessary; thoroughly familiar with efficient advertising; large storerooms and distilling works at disposal; inquiries solicited sub-eipher. "J. H." 2456Z, Annances Suisses, S. A. Zurich, Seidengasse 10.

**A**GENTS on good commission required for proprietary selling at sight, showing 40 per cent. profit to retailer; average orders over £5; good-class show matter supplied which brings quick repeats; excellent opportunity for reliable men with good connections especially in Scotland, S. Wales, Midlands, S. and W. of England. Application to 186/18, Office of this Paper.

**D**RUGGIST established in Brussels for many years wishes to Represent English houses, Drugs, Chemicals, Oils and Paints, etc.; bank and other first-class references. Write G. Vander Elst, 502 Chaussée de Waterloo, Bruxelles.

**S**OLE Agencies of reliable Manufacturers of Chemicals, Drugs, Patent Medicine, Perfumery and Toilet requisites are taken up on best terms for British India; proposals with particulars and samples immediately required. The International Commercial Agency, Limited, 147 Abdul Rehman Street, Bombay (established 1910; best references).



**BUSINESSES FOR DISPOSAL.**

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**LANCASHIRE** (within 20 miles of Manchester).—Good sound Business; Light Retail, Prescribing, Dispensing; N.H.I. last 12 months over eleven thousand; takings without N.H.I. over £1,300; scope to increase; owner giving up business; good living accommodation; rent and rates under £30; price £750 net cash, or £50 and valuation. Apply 189/8, Office of this Paper.

**LONDON**.—Owing to death of proprietor, a good Retail and Dispensing Business for Disposal in populous residential suburb; well stocked; several good Specialities; returns over £1,200; good private house; references required. Apply 191/4, Office of this Paper.

**LONDON, N.**—Old-established Light Retail and Dispensing Business, with good Optical connection; returns £1,700, increasing; net profit £400; Pharmacy well stocked and nicely fitted; small house; ill-health demands rest; terms, valuation of stock and fixtures, plus agreed sum for goodwill; full particulars, in confidence, to bona-fide buyers. Apply 178/30, Office of this Paper.

**LONDON, N.W.**—Reliable, old-established, good middle-class Business (with a Speciality) for Sale; an excellent opportunity for a young Pharmacist to secure an assured income right away; every opportunity offered to a genuine applicant (who could act as Manager) to investigate, and so prove value for money. Apply to 190/6, Office of this Paper.

**LONDON, N.W.**—Large, good Family Business in very busy main thoroughfare; Dispensing at good prices; Photographic, and general Pharmacy; present turnover £7,000 per annum, and increasing; exceptional scope for one or two energetic, capable men; valuable, well-established Proprietaries; proprietor retiring; price, stock and fixtures at valuation, plus one and a-half year's gross profits, to be estimated at difference between purchases and sales, taking an average of the last ten years; negotiations will only be entertained with applicants who furnish evidence of ability to purchase. Apply 195/15, Office of this Paper.

**PLYMOUTH**.—Immediate disposal through serious bad health, Light Retail and Dispensing; easily worked by present proprietor for over 34 years; established originally 1812; at good profits; as owner both of premises and business should prefer a combined sale, he would be willing to give a lease or let as a lock-up shop (dwelling-house at present sublets at £50 per annum); gross rent £75; Photography and Dentistry might easily be added; no opposition; would be willing to engage as Assistant in view as probable purchaser; but only cash buyers need apply. F Maitland, 31 Chapel Street, Stonehouse, Plymouth.

**SOUTH WALES**.—Branch Business for Sale in large industrial town; main thoroughfare; turnover £1,000; reasons for disposal illness of principal. Apply 186/16, Office of this Paper.

**SUSSEX**.—Thoroughly genuine, old-established, good-class Retail, with some Dispensing, Photographic, and Agricultural; returns over £900, rapidly increasing; profits above the average, no cutting; nice shop, well stocked; good house accommodation, small garden, delightfully situated; splendid opening for Dentistry and Optics. Apply 186/17, Office of this Paper.

**DENTAL** Surgeries situated in large towns close to London; additional capital required to develop these; gentlemen with £100 capital can be assured of excellent investment; interest payable weekly or monthly. Apply 185/26, Office of this Paper.

**PROFITABLE** Business in West Riding country town; handsome, well-fitted, modern shop; valuation and £100; cash only; owner entering larger premises; pleasant house and garden also, if desired. Apply 190/31, Office of this Paper.

**To be disposed of**, a good-class Dispensing Business; suburb of Manchester (southern district), main road; district developing rapidly; Wine Licence attached. Apply 167/29, Office of this Paper.

**£1,291 RETURNS** 1918 and scope for considerable increase; all ready-money at good profit; Chemist's Retail in large colliery village; no N.H.I., no heavy trade, no qualified opposition; well stocked; modern double-fronted shop with house. "Durham," c/o Messrs. Raines & Co., Wholesale Druggists, York.

**PREMISES WANTED.**

**REQUIRED** (shortly) a small Factory in or near South London, suitable for Wholesale Manufacturing Druggists. Full particulars to 189/28, Office of this Paper.

**TENDERS.****COUNTY BOROUGH OF SALFORD.  
LADYWELL SANATORIUM.**

Tenders are invited by the 19th of June for the supply of **DRUGS AND MEDICAL AND SURGICAL APPLIANCES** required for the ensuing six months. Tender forms from the Medical Superintendent, Ladywell Sanatorium, Eccles New Road, Salford.

L. C. EVANS, Town Clerk.

**BUSINESSES WANTED.**

4s. 6d. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

**BERKS or OXS.**—Town or Good District.—Pharmaceutical Chemist, selling present business, desires to purchase another for part cash and arrangement; position as Manager with view not objected to; must have good house and garden and educational facilities (not "high-class Dispensing"); references given and confidential. "Ajax" (190/37), Office of this Paper.

**LONDON**.—Demobilised Officer (Pharmacist) wishes to purchase Business or Partnership. Apply "Lever" (188/36), Office of this Paper.

**S.W. COUNTIES**.—Advertiser desires to purchase Chemist's Business in South-Western Counties, preferably Devonshire; N.H.I. not objected to; must have good house accommodation attached; would consider opening new business if suitable premises and prospects were offered. Particulars to W. J. V. Fowden, 65 Abbey Road, Torquay.

**SOUTH or South-West Coast** (near Bournemouth preferred, but not at all essential).—Pharmacist desires to purchase a Business, Dispensing, General Retail, or Agricultural; neglected or branch not objected to; returns £1,000 to £2,000; replies in confidence; cash available (bankers' reference given); Partnership also considered. Caesar, 70 Bath Road, Exeter.

**SOUTHERN ENGLAND AND HOME COUNTIES**.—Advertiser requires a good-class Business; price about £900; good living accommodation and garden if possible; market town or outer London suburbs preferred. Particulars in strictest confidence to R. F. Edkin, 18 Windermere Avenue, London, N.W. 6.

**ADVERTISER** wishes to purchase, on easy terms, good Drug Store, or neglected one with scope for increase; willing to pay for privilege of instalment purchase; security found; proof of capability of business to pay for itself essential; would Manage, with view to purchase; communications strictly confidential. Particulars to "Genuine" (190/29), Office of this Paper.

**DRUG** Stores, genuine going concern; neglected one not objected to if position right; living accommodation essential; London or suburbs; cash ready. Reply to Smith, 52 York Road, Battersea, S.W. 11.

**GOOD-CLASS** Business wanted; Lancs coast, Cheshire, or Yorks West Riding; house and garden; bankers' reference; full particulars, confidential. Apply 188/6, Office of this Paper.

**PROPRIETARY** Wanted.—Limited Company wish to purchase an established Proprietary Business, Medical or otherwise; good price will be given for one already stocked by Chemists, and capable of improvement by up-to-date methods. Apply 176/34, Office of this Paper.

**PHARMACIST** requires a Business; returns £800 to £1,500; London suburb or provincial town. "Harding" (191/8), Office of this Paper.

**QUALIFIED**, demobilised, desires to purchase Business; £50 cash down, balance by instalments, plus 5 per cent. interest; neglected Drug Store not objected to; busy thoroughfare in or near London; decent living accommodation essential; also plenty of scope for an energetic man to improve the business. Replies in strict confidence to "Sergt.," 49 South Park Road, Wimbledon, S.W. 19.

**SOUND** Business required in West or South-West England; returns £1,500 or more; good house; or Managership view to succession. "Chemist," 20 Stafford Road, Weston-super-Mare.

**WANTED**, Business in London with scope for increase; house attached preferred; cash about £300, or larger one entertained if terms can be suitably arranged; full particulars of business, locality, competition, rent, rates, etc., will be treated as confidential. Arthur Lawrey, 11 Penare Terrace, Penzance.

**WANTED**, a good Business in Warwickshire; a good country Business preferred; one with off-licence attached not objected to; cash up to £2,000; must bear every investigation. Replies in strict confidence to "Midlands" (186/13), Office of this Paper.



**FOR SALE.**

4s. 6d. for 50 words or less ; 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

**C**OMPLETE Set of Shop Rounds, gilt-labelled, and two 2-gallon Carboys. Particulars Williams, Chemist, Llantwit Major, Glam.

**E**XCELLENT Old Spanish Mahogany (solid) Shop Fittings for Sale (surplus after removal to smaller premises); 11-ft. Wall Fitting; above and below Glass Cases, Shelves, etc., centre 4 bent-glass falls, mirror backs, glass shelves, with projecting flat cases; also 8-ft. mahogany-fronted and topped Counter, and Drawers under; also 15-ft run small and large Drawers, Lockers, all splendid condition; Desk Case, Shop Rounds, Glass Show Jars, etc., etc.; early offers necessary. Gordelier, 76 Kensington Park Road, W. 11.

**S**HOWCASES for Sale, suitable for Counter; one 5 ft. long, two divisions, 25s.; one 12 ft. long, six divisions, 50s.; plate-glass sloping fronts. Apply The Guildford Stores, Ltd., Guildford.

**5** × 10-GALLON Drums Pure Liquid Paraffin Liquid B.P.; sp. gravity, 875, Redgrave Butler's, medicinal; accept 14s. 6d. gall., whole or part; carriage paid. "L." (179/11), Office of this Paper.

**SITUATIONS OPEN.**

4s. 6d. for 50 words or less ; 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

**RETAIL.****THE TECHNICAL COLLEGE.**

Principal: Charles Coles, B.Sc. (Lond.).

The services of a full-time Lecturer are required in connection with the School of Pharmacy, a Department of the Technical College, to be opened in September next.

Subjects required—Pharmacy, Materia Medica, Practical Dispensing, and Latin.

Commencing salary £350 per annum.

Applications on foolscap paper, stating age, full qualifications, teaching and other experience, and giving copies of not more than three testimonials, should reach the Principal on or before Saturday, 14th June.

JOHN J. JACKSON,  
Director of Education.

City Hall, Cardiff.

**A**NGLESEY (LLANGFNID).—Manager for good Agricultural Business required at once; must be Welsh-speaking (no others need apply), qualified, and good Salesman. Apply, with full particulars, age, experience, salary required, and photo, to R. R. Jones, Pharmacist, Amlwch, N. Wales.

**B**LAKEPOOL.—Capable Manager; qualified; premises lock-up; must have had experience in Management and taking full control; permanency; salary according to abilities. Particulars to H. Bellringer, 20 Great Clowes Street, Lower Broughton, Manchester.

**B**OURNEMOUTH.—Junior Assistant required; good Dispensing and Counter experience. Apply, with full particulars, age, references, and salary required, Gilbert & Hall, 15 Commercial Road, Bournemouth.

**B**RADFORD.—Unqualified Assistant wanted; must be exceptional Salesman and good worker. Enclose photo with particulars of experience, salary required, etc., to M. Rogerson & Son, Ltd., 8 Darley Street, Bradford.

**B**RIGHTON.—Experienced Assistant for high-class Retail and Dispensing business; unmarried, qualified preferred; please state full particulars in first letter as to experience, age, etc., and enclose photo if possible. Parris & Greening, 105 Church Road, Hove.

**B**RIGHTON.—Smart Junior, accustomed to good-class Dispensing business, required for a few months. All particulars to Watts, 114 Church Road, Hove.

**B**RISTOL.—Qualified Manager for Light Cash, Retail, with N.H.I. Dispensing; branch is situated in pleasant suburb. Please send usual particulars to C. A. Stokes, Chemist, Bristol.

**C**AMBRIDGE.—Wanted, an Assistant for good-class Dispensing business. Apply, stating salary required and full particulars, to S. F. Barker, 46 Chesterton Road, Cambridge.

**E**ALING, W.—Durbins, Ltd., have a vacancy for a competent Assistant; must be a capable Dispenser and keen Counter-man. Apply, stating salary, and giving details of experience, to J. T. Brown, 66 Ealing Broadway.

**E**AST DEREHAM.—Wanted (at once), Junior Assistant for good-class country business, Photography. Edward Peck, East Dereham, Norfolk.

**G**ODALMING.—Wanted, Junior Assistant (outdoors); no N.H.I. Usual particulars to Valentine Norman, Chemist, Godalming.

**L**EDBURY, HEREFORDSHIRE.—Junior Assistant (unqualified) or Improver in good-class business in lovely district; hours short, no Sunday duty; full particulars, photo, salary expected. Apply to W. Harrison-Osborne, Pharmacist, Ledbury.

**L**EEDS PUBLIC DISPENSARY.—Vacancy for Head Dispenser; applicants should be Pharmaceutical Chemists or hold equivalent diploma, and have some experience in the training of students in Materia Medica, Pharmacy, and Dispensing for the Apothecaries' Hall or Minor Certificate. Applications, stating age and salary expected, with copies of three recent testimonials, to be addressed to the Secretary of the Medical Faculty, Public Dispensary, North Street, Leeds, on or before June 14th, 1919.

**L**IVERPOOL.—Experienced and capable unqualified Assistant wanted for Light Retail and Dispensing business; please send full particulars, salary required, etc., with photo if possible. R. S. Carrie, Chemist, Tue Brook, Liverpool.

**L**ONDON.—Qualified Manager resident, in London required for relief work in the London district; satisfactory permanency eventually; the position offers excellent prospects. "Relief," (189/4), Office of this Paper.

**L**ONDON.—Qualified Manager, married, for quick Store business in a busy thoroughfare near the Elephant and Castle; liberal interest in the profits offered to an energetic, capable man. "S. E." (189/402), Office of this Paper.

**L**ONDON, N.W.—Capable Assistant wanted, with knowledge of Photography and Optics preferred; good salary; in- or outdoors; short hours. Write or call, Beaton, 14 England's Lane, Belsize Park (Charing Cross and Hampstead Railway).

**L**ONDON, S.E.—A vacancy occurs in a good-class Pharmacy for a smart Assistant, either male or female; some Dispensing experience essential; ample opportunity for gaining further experience; must be young and well recommended, and of good appearance and address. Apply Frost & Harrison, 3 Eltham Road, Lee Green, S.E.

**L**ONDON, S.E.—Wanted, for first week in July, an unqualified Junior Assistant (outdoors); permanency; must be a quick and accurate Dispenser, and able to assist at Counter; two kept. Apply, stating age, experience, salary required, when disengaged, and reference, to 191/20, Office of this Paper.

**L**ONDON, W.—Smart able Counterman, not necessarily qualified, for a first-class business; liberal salary to a really good man. Apply "X. Y. Z." (188/700), Office of this Paper.

**L**ONDON, W.—John F. Harrington, 15 Kensington High Street, W. 8, requires a Junior Assistant (immediately). Apply, giving full particulars of age, height, experience, salary required (outdoors).

**L**ONDON, W.—Junior Assistant (male) required in good-class Dispensing and Retail business; must be a reliable Dispenser. Apply, with full particulars of experience, etc., and salary required, to G. W. Gray, 194 Holland Park Avenue, W. 11.

**L**ONDON, W.C. 1.—Smart Junior Assistant for high-class Dispensing and Counter; Photographic experience an advantage; outdoors; three Assistants kept. Apply, personally if possible, A. Matland & Co., 8 Torrington Place, Gordon Square, W.C. 1.

**L**ONDON, W.C.—Junior unqualified Assistant (outdoors); good general experience, including Photography. Apply, personally, or if by letter give full particulars, stating salary required, Boutalls, Ltd., 150 Southampton Row, W.C. 2.

**M**ANCHESTER.—Qualified Assistant; age 35 to 50. State full particulars, age, height, experience, references, salary required (outdoors), and when disengaged, to A. Jeans, 151 Oxford Road, Manchester.

**M**ANCHESTER.—Managing Assistant, unqualified, for quick cash trade, with fair amount of N.H.I. Dispensing. Full particulars to H. Bellringer, 20 Great Clowes Street, Lower Broughton.

**M**MARGATE.—Wanted, a competent Assistant accustomed to brisk business; good-class Retail and Dispensing, with Photographs; June to September. Kindly state age, height, details of experience, and salary required (outdoors), to D. T. Evans, Chemist, Margate.



**MIDLANDS.**—Qualified Manager required to undertake relief work for a time; if satisfactory permanent management will be offered on liberal terms. "Mid." (189/400), Office of this Paper.

**NEAR MANCHESTER.**—Qualified required for good Retail and N.H.I.; permanency. Give full particulars and salary required to 187/35, Office of this Paper.

**NEAR MANCHESTER.**—Reliable Qualified Assistant required to Manage Branch; Light Retail and Dispensing; good salary and commission to a good man. Phillips, Chemist, Ashton-under-Lyne.

**NEAR MANCHESTER.**—Junior Assistant for good-class Dispensing business; one who has served a good apprenticeship and ambitious for his improvement would suit; congenial business and conditions. Apply Woodhead, Chemist, Eccles.

**NORWICH.**—Qualified Assistant for good-class Retail and Dispensing business; outdoors, short hours; photographic knowledge necessary. Apply, with full particulars of recent engagements, copies of testimonials, if possible photo, and stating salary required, to J. F. Collin, Pharmaceutical Chemist, 25 The Walk, Norwich.

**OXFORD.**—Wanted, qualified Assistant in about a month's time; permanency. Apply, with usual particulars, salary required, etc., to J. Burbank, 116 Walton Street, Oxford.

**RHYL.**—Junior Assistant or capable Improver required for season, probable permanency; able to Dispense and well up in Photography; state usual particulars, salary required, and enclose photo; applications unanswered in three days declined. Whiteley, Chemist, Rhyl, N. Wales.

**SOUTH WALES.**—Wanted, a trustworthy qualified Manager for new Branch; must be good Prescriber and Salesman; Welsh speaking preferred; comfortable berth; good and progressive salary. Apply, giving usual particulars and enclose photo if convenient, to Melville Thomas, Chemist, The Square, Neath.

**SOUTH WALES.**—Wanted, qualified Chemist, to Manage business (or elderly registered Chemist); middle-class trade; outdoors; elderly man preferred. Please state age, salary, etc., to "Permanency" (192/2), Office of this Paper.

**WEST END.**—Smart qualified Assistant wanted for a first-class business; must be able to take charge in absence of Principal; liberal salary and splendid prospects to a really good man. Apply "X. Y. Z." (188/7), Office of this Paper.

**WALTON.** Chemist, Batley, requires a smart all-round Assistant; able to take charge; brisk Counter trade; very little Dispensing; easy hours, no Sunday duty; good wages (outdoors); one seeking permanency and progressive salary preferred. Please state in first letter fullest particulars of experience, references, age, height, photo (which will be returned), and salary required to commence.

**CHEMIST.** qualified, smart man as Manager of branch; N.H.I. Dispensing, brisk Retail trade, Liverpool. Full particulars and salary required to Norman's Pharmacies, Ltd., 104 Heyworth Street, Everton, Liverpool.

**CHEMIST.**—Qualified branch Manager required (at once); N.H.I.; close Tuesday 11.30, Saturday 6, 48-hour week, no Sunday duty. State full particulars, experience, age, salary, references, when at liberty, to Secretary, Morley Industrial Co-operative Society, Limited, Morley, Yorks.

**ENERGETIC.** qualified man as First Assistant; must be thoroughly reliable and capable of taking charge if necessary; good-class cash business; no Sunday duty. Full particulars and salary required to Durbin & McBryde, 112 North End, Croydon.

**ENERGETIC.** unqualified man as Assistant and Window-dresser; one with knowledge of Optics preferred; four Assistants kept; salary and commission; permanency. Apply Mr. A. Russell Fox, 15 Silver Hill Road, Sheffield.

**IMPROVER** or Junior with some knowledge of Dispensing and Photography wanted for season; hours 8.30 to 8, Wednesday 1. Saturday 9 p.m., no Sunday duty. Please state salary required (outdoors) to Senior, Chemist, Scarborough.

**INDOOR** Assistant wanted (at once); Scotsman preferred; state age, height, experience, salary required, give references. Apply to Milne, Chemist, Amesbury, Salisbury, Wilts.

**JOHN BARKER & CO.,** Kensington, W., require an experienced Assistant for Drugs and Perfumery counter; hours 8.30 to 1 o'clock Saturdays. Apply Staff Manager, Ball Street.

**JUNIOR** Assistant wanted with good Dispensing experience. State age, salary required (outdoors) by letter to John Atkins, Chemist, 109 Queen's Road, Bayswater, W. 2.

**JUNIOR** (unqualified) wanted (at once) for good-class business in healthy far-out London suburb; must be good Dispenser and well up in Photography; please give full particulars of past experience and state salary required (outdoors). Apply 188/33, Office of this Paper.

**JUNIOR** or Improver (lady or gentleman) wanted for Light Retail and N.H.I. Dispensing; Manchester suburb; give particulars and salary required. Apply 187/1, Office of this Paper.

**JUNIOR** or Improver; Dispensing and Photographic. State age, salary (outdoors), to "B. S." (180/27), Office of this Paper.

**JUNIOR** Assistant (unqualified); please state full particulars in first letter as to age, experience, and salary required; outdoors. S. Y. Spouncer, Chemist, Sutton Road, Southend-on-Sea.

**JUNIOR** Assistant Wanted for light Retail and Dispensing. Duck, Chemist, Porthcawl.

**JUNIOR.**—Reliable man wanted for Dispensing and Counter in good-class business; large country town. Full particulars and salary required (outdoors) to 191/2, Office of this Paper.

**L.A.H.** DUBLIN, to Dispense for Doctor and assist with Practice; Midlands Apply, with particulars as to age, salary, and experience, 191/1, Office of this Paper.

**LADY,** as qualified Manager for small Retail and Insurance Dispensing business near Manchester; state detailed particulars as to career, age, salary, and when at liberty. Apply 186/24, Office of this Paper.

**LOCUM** wanted, qualified, elderly, active, for about three weeks, about June 16th to July 5th, reasonable terms, for country business. Photo and usual particulars to 188/39, Office of this Paper.

**LOCUM** wanted, qualified (outdoors), last fortnight in June or first in July; no Sunday duty. Terms and references to "W." 281 Brixton Road, S.W. 9.

**LOCUM;** qualified or unqualified Assistant required to assist partner from June 12 to July 7; state terms. R. Cope, Leek, Staffs.

**LOCUM;** required, unqualified capable Dispenser, and good at Counter work, for last three weeks in June (or near); state terms; outdoors. Geo. Head, 86 High Street, Deal.

**MANAGER,** qualified, wanted, to inaugurate Chemist's shop in large West-End hotel; accustomed to high-class Retail and Dispensing business; live out. Reply, giving full particulars of age, references, and salary required, to Box 388, Samson Clark & Co., Ltd., 58 Great Portland Street, W. 1.

**MANAGER** and Managing Assistant for light Retail stores, no poisons, situated in pleasant outskirts of London; not under 30; state age, salary, references in first letter; commence June 12. "Beta," c/o J. Brown, 74 West Hill, East Putney, S.W. 15.

**MESSRS. TIMOTHY WHITE CO., LTD.,** Chemists, Portsmouth, require a capable Pharmacist; easy hours; good and progressive salary, with excellent prospects; free removal.

**OUTER SUBURB.**—Junior Assistant wanted in good-class business; lady or gentleman; indoors or out. Apply, giving particulars as to experience, and stating age, height, and salary required, and enclosing photo if possible, to L. Hutchin, The Pharmacy, Loughton, N.E.

**QUALIFIED** Manager (single) required for relief work; Yorks and Lancs; good opening for young man anxious to make progress. "Y. L." (189/401), Office of this Paper.

**QUALIFIED** man wanted (immediately) for General Retail and Dispensing. Apply, with full particulars and salary required, to "H. E." 19 Brunswick Street, Cheetham, Manchester.

**QUALIFIED** Manager for small business in Manchester district, including Retail and Insurance Dispensing; state full particulars as to career, age, salary, and when at liberty. Apply 186/240, Office of this Paper.

**QUALIFIED** Manager required for suburban business in Yorkshire (West Riding); good salary plus an interest in the profits to an energetic man able to take full control and to develop business; interview arranged. Fullest particulars to 188/16, Office of this Paper.

**QUALIFIED** Manager for good-class business in country town; knowledge of Photography preferred. Apply, stating age, experience, salary required (indoors), and enclose photo if possible, to "E. S." (190/14), Office of this Paper.

**REQUIRED** for good-class business, smart Assistant; unqualified; good experience essential; outdoors. State full particulars and salary required to Meacher, Higgins & Thomas, 105a Crawford Street, London, W. 1.

**REQUIRED,** by end of June, a qualified Assistant; quick promotion offered to suitable gentleman; kindly state age, reference, and salary in first letter. Butler & Co., Ltd., 42 Old Market Street, Bristol.

**SAVORY & MOORE, LTD.,** Lancaster Gate, London, W. 2, require the services of a qualified Assistant (gentleman); age not over 35 (outdoors) with first-class Dispensing and Counter experience. Full particulars to the Manager.



**ROBERT GORDON'S TECHNICAL COLLEGE, ABERDEEN.**  
**PHARMACY DEPARTMENT.**

The Governors of the College invite applications for the post of ASSISTANT LECTURER and DEMONSTRATOR. Salary £250 per session. Full particulars and forms of application, which should be lodged not later than 14th June, 1919, may be had from JAMES MACKENZIE, Secretary and Registrar.

**SMART** Counterman wanted; unqualified; accustomed to good-class business; easy hours; good salary; outdoors. Send photo with full particulars, stating salary required, to Ralph Cuthbert, Ltd., Chemists, Huddersfield.

**THE** Ebbw Vale Workmen's Medical Society requires a qualified man to take charge of and relieve Dispensers and to advise and help generally. Application, stating age, experience, and salary required, to be sent the Secretary, Central Dispensary, Ebbw Vale.

**UNQUALIFIED;** permanency (outdoors); please state salary, etc. Cromack, 413 Oxford Road, Manchester.

**UNQUALIFIED** lady Assistant for good-class business in pleasant district; easy hours and comfortable furnished apartments; good Retail and Dispensing experience essential; state by first letter salary required and when at liberty; general holidays free, Sunday duty one hour in three Sundays. C. W. Hobson, 6 Knaresboro Road, Milhouses, Sheffield.

**UNQUALIFIED** Assistant for good-class Light Retail business; applicants must send full particulars of experience, stating age and salary required. S. M. Hibberd, 26 Queen Street, Wolverhampton.

**UNQUALIFIED** Assistant, not under 30, married preferred, wanted for quick cash business; must be good timekeeper and able to control girl Assistants; applicants must state salary required and be able to give unquestionable references as to character. Apply 189/6, Office of this Paper.

**UNQUALIFIED** Assistant wanted immediately, mostly for Counter work; photographic salesmanship essential. Atkins & Son, Pharmacists, Salisbury.

**WANTED** (immediately), French-speaking Assistant; with West-End experience preferred. Apply the Manager, Hep-pell's, 78 Strand, W.C.

**WANTED** (at once), unqualified Assistant with good Dispensing and Counter experience; please state full particulars in first letter. S. P. Sayers, 7 Breut Street, Hendon, N.W. 4.

**WANTED**, qualified Manager for Branch; competent, trustworthy, and obliging; hours 9 a.m. to 8 p.m., 1 on Wednesday. Apply, stating age, references, and salary required, to "Statim," c/o Messrs. J. Woolley, Sous & Co., Victoria Bridge, Manchester.

**48 HOURS**, 60s.; unqualified, competent Assistant; busy market town; good Photo, Counter, and Windows. Bidie, Chemist, Banbury.

**£250 SALARY.**—Wanted, qualified Assistant, about 25 years of age, with good experience, where several are kept; South Coast. Please state full particulars to "Nemo" (179/25), Office of this Paper.

**WHOLESALE.**

4s. 6d. for 50 words or less; 8d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

**LIVERPOOL.**—District Drug Traveller wanted. Apply 177/69, Office of this Paper.

**LONDON, E.**—Experienced Pill and Tablet Coater wanted. Apply Shadforth Prescription Service, Ltd., 63 Grove Road, Bow, E. 3.

**A** LARGE provincial house is requiring the services of an experienced gentleman to take on the duties of Head Invoice Clerk and General Office Manager; experience in office organization essential; good salary will be paid to the right man. Reply, giving full particulars, 175/51, Office of this Paper.

**ASSISTANT** Sundries Manager and Buyer for firm of Wholesale Druggists; must have had previous experience. Write, stating age, salary required, and full particulars, "D. F." (176/59), Office of this Paper.

**ASSISTANT**, with good knowledge of Druggists' Sundries and able to assist with stock, required by leading Wholesale London house; state age, salary required, experience, etc. Apply "L." (176/22), Office of this Paper.

**CAPSULE MANUFACTURER.**—Wanted, a thoroughly experienced Hand, capable of taking full control for the Manufacture of hand-made Capsules. Apply, giving full particulars, salary, etc., 189/20, Office of this Paper.

**COMPETENT** and experienced Sugar Coaters wanted; Pills and Tablets; state age, experience, and wages required. Apply 175/47, Office of this Paper.

**COUNTER** Hands (Wet and Dry); must be capable and experienced; wages £2 12s. 6d. Apply, stating full particulars, to "L." (178/15), Office of this Paper.

**CHEMISTS'** Assistant required by small Wholesale firm; short hours; previous wholesale experience desirable but not essential; please state age and salary required. Roberts, 2 Skipton Street, London, S.E. 1.

**CLERK**, Invoice, for office of Wholesale Druggists; must be good writer, quick and accurate at figures, with experience of the trade. Apply, stating age, etc., to 193/17, Office of this Paper.

**DRUGGISTS'** Sundries.—Assistant required, age 18 to 20, with good practical knowledge of Sundries and Patents for export trade. Apply Dakin Bros., Ltd., 82 Middlesex Street, E. 1.

**EXPERIENCED** Dry Counterman required. Apply to Evans Sons Lescher & Webb, Limited, 60 Bartholomew Close.

**FOREWOMAN** for small packing room dealing with food preparations; must have had similar experience and accustomed to control State wages, age, and fullest particulars to "Packer" (176/56), Office of this Paper.

**GENTLEMAN**, of good education, about 30-35, for position of trust and responsibility in London Export Druggists', including management of Office, Correspondence, Pricing, and control of Bookkeeping; only those qualified by similar experience entertained; liberal commencing salary and good prospects. Apply 177/19, Office of this Paper.

**LARGE** manufacturing house (Lancashire) has a vacancy for capable man to supervise production of tooth pastes and other toilet articles. Apply L179/31, Office of this Paper.

**PERFUMERY.**—An immediate opening occurs for a really good man, well up in Perfumery, Toilet articles, etc., who is able to Manage a large establishment; one competent to take entire charge in absence of Principal, able to develop new lines, and to keep up-to-date is assured of ample prospects for the future. Write, stating salary required, and all details, which will be treated with every confidence, "X. Y. Z." (188/70), Office of this Paper.

**PHARMACIST**, young, well educated, able to fill position requiring industry, intelligence, and sound business ability, required by London firm of Chemical Manufacturers; previous Wholesale experience not essential; liberal salary, good prospects, and permanent scope for right man; application should state age and full particulars of previous experience. Apply 177/9, Office of this Paper.

**REPRESENTATIVE** for London and South required by Manufacturers of Chemists' and Druggists' Sundries; good support for man with experience on this territory. Apply 178/42, Office of this Paper.

**REQUIRED** (at once), a Stockkeeper; capable of packing preparations and looking after the stock. State age, full particulars (by letter), to John Atkins, Chemist, 109 Queen's Road, Bayswater, W. 2.

**SALESMEN**, with Pharmaceutical education, wanted, to Represent large firm on Pharmaceutical lines in the following districts: London, South of the River, including Southern Counties; London, North of the River, including Essex, Herts, Cambs.; South Wales, Bristol, Devon, and Cornwall; and Cumberland, Durham, Northumberland, North Lanes, and North Yorks; good salary and expenses. Answer with full particulars, stating age and salary expected, to "B." (176/12), Office of this Paper.

**TRAVELLERS** required with good connection amongst Chemists, Hairdressers, and Stores, to carry advertised lines; state ground covered and full particulars. Apply 183/35, Office of this Paper.

**TRAVELLERS** required, with good connection among chemists and hairdressers, to carry toilet preparations of repute; excellent opportunity and permanent scope for right man. Please state full particulars and ground covered in confidence to 190/26, Office of this Paper.

**VACANCY** for clever Chemist with original ideas to assist Wholesale Chemists' Manufacturer; exceptional opportunity for progressive permanent position. Apply R. Barrow, 30 Craven Street, Strand, London.



TRAVELLERS required for high-class French Perfumery and Toilet preparations; must be well introduced; calling on chemists, Hairdressers, and Stores, etc.; on commission basis only; please state ground covered. Write to 183/4, Office of this per.

WANTED, for the Fine Chemical and Drug Trade (Wholesale only), competent Warehouseman and Packer; preference to service man. Application in own writing with copies of testimonials to "L" (188/30), Office of this Paper.

WANTED, Underwarehouseman in Wholesale Druggists'; must be used to the trade. Apply "H." (176/27), Office of this per.

WANTED, young qualified Chemist, capable of undertaking the Manufacture of all Pharmaceutical Specialities for a wholesale department. Apply "X. Y. Z." (177/66), Office of this per.

WAREHOUSEMAN, with Dry and Wet Counter experience. Apply, stating salary required and previous experience, to Wilson, F.I.C., c/o Randall & Son, Ltd., 146 High Street, Southampton.

## SITUATIONS OPEN.

6d. for 50 words or less; 8d. for every additional, 10 words or less, prepaid.

### (Colonial, Indian and Foreign.)

ANGKOK, SIAM.—Qualified Assistant required; knowledge of sight testing and fitting essential; one with good-class London experience preferred; four years' agreement; salary £400, £425, 50, £500 yearly, with furnished quarters; passage paid out home. Apply, with testimonials and photograph, to "M. H.," Port Department, S. Maw, Son & Sons, Ltd., 7-12 Aldersgate East, E.C. 1.

FEDERATED MALAY STATES.—Qualified Assistant required; unmarried; three years' agreement; passage paid out and home; must have good health; salary first year £35; second year £3; third year £41 per month; short hours; preference given one with knowledge of Photography and Optics, but not essential; advancement for good business man. Apply 163/64, Office of this Paper.

FEDERATED MALAY STATES.—Qualified Assistant; unmarried; must have had good experience in retail; three years' agreement; salary 350, 400, 450 pounds sterling annum; passage paid second class out and home; short hours; climate; the firm one of the largest in the East; and the position and surrounding country most attractive. Apply Dakin & Sons, Ltd., 82 Middlesex Street, E. 1.

HONG KONG.—Two thoroughly reliable Assistants, who have had good experience in first-class Retail business; age 22 to four or five years' agreement; salary for qualified men £480, £510 or £520 per annum; passage paid out and home. Address "Export" (188/35), Office of this Paper.

INDIA.—Wanted, a qualified man to manage the Dispensing Department of a high-class Pharmacy; salary first year rupees, second year 450 rupees, third year 500 rupees; three years' agreement; passage paid both ways; must be single. Apply, giving references, to "G. K." (172/12), Office of this per.

JAPAN.—Two qualified Assistants wanted for old-established European Pharmacy in Yokohama; free furnished quarters, lighting and heating; second-class passage out and home; years' agreement. Apply, with testimonials and photo, to "H." Export Dept., S. Maw & Sons, Ltd., 7-12 Aldersgate East, E.C. 1.

PALESTINE SETTLEMENTS.—Qualified Assistant, young, and capable of managing Branch Dispensary; four years' agreement; passage paid out and home; salary first year, £30 per month, second and third years £32 per month, fourth year £35; good opportunity for an energetic man; a knowledge of Optical Photography work desirable. Apply W. O. H., Burgoyne, Bridges & Co., Ltd., East Ham, E. 6.

SOUTH COAST SOUTH AMERICA.—Travelling Representative required by first-class English Perfumery firm, to cover also the Central America; must have travelled and had high experience on ground. Apply in strict confidence with particulars to "B. B. B.," Box 311, Benson's, Atlantic House, Corn Viaduct, E.C. 1.

## SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

### [HOME.]

### RETAIL.

ADVERTISER, 45, married, best varied experience, though unqualified, desires good permanency; Oculists' prescriptions a speciality; conscientiously energetic and capable, requires commensurate salary; owing to removal difficulty, prefers Southern Counties; please state salary and hours; free July 5th. "Responsible," Shirley Park Road, Cowes.

AN Apprentice (Welshman) seeks situation (indoors) in London; sharp and energetic. Apply "Spes," "Pawhaven," 102 Well-don Crescent, Harrow.

AS Locum, qualified, extensive experience in all districts; references the best; recently Manager over two years, in which takings trebled; now engaged till June 28th, and also from August 11th to 24th; write open dates at once. "Chemist," c/o Mr. Cheshire, M.P.S., Grantham.

AS Locum; August only; highest credentials; well recommended. "Chemicus," c/o James White, 10-12, Upper Richmond Road, London, S.W. 15.

ASSISTANT; 25; demobilised C.S.M.; unqualified; five years' varied experience; smart, energetic; for three or four months only; Yorkshire or Lancashire seaside preferred. Apply 186/19, Office of this Paper.

ASSISTANT (30), unqualified, married, wishes berth for the season; South or South-East Coast preferred; just demobilised; 12 years' best London experience; knowledge of Photography. "P. P.," 36 Atherfold Road, Clapham, S.W.

ASSISTANT or Manager, 40, unqualified, married, Dispensing, Photography, Counter, just demobilised, requires permanency. Hannath, 53 Cantelupe Road, East Grinstead.

ASSISTANT, gentlemanly, 31, unqualified, Continental and West-End experience, seeks part-time appointment; evenings or days, by arrangement. "Aspirin," 27 Lansdowne Gardens, Stockwell, S.W. 8.

ASSISTANT; unqualified; recently demobilised; Dispenser and good Counterman. H., 10a Wyfold Road, Fulham, S.W. 6.

ASSISTANT, 33, unqualified, excellent Dispensing and Counter experience, seeks engagement until October. Apply 191/33, Office of this Paper.

BRISTOL or SUBURBS.—Assistant; 27; unqualified; 10 years' thorough experience in Dispensing, Salesmanship, Photography, and Window-dressing; energetic and trustworthy; excellent references. Hooper, Orchard House, Kingswood, Bristol.

COMPETENT, reliable, qualified Locum; July, August, and September, booking dates; state terms. "Nemo," 57 Brown Road, Walthamstow, Essex.

CORNWALL or DEVON.—Assistant, unqualified, 26, industrious and capable, with eight years' thorough pre-war experience, for domestic reasons seeks post, Dispensing or quick Retail; excellent references; state usual particulars first letter. Apply 186/28, Office of this Paper.

CHEMIST, just demobilised, 10 years' experience, desires engagement; City or seaside; first-class Counter hand. Reply Box 308, T. B. Browne's Advertising Offices, 163 Queen Victoria Street, E.C. 4.

DEMOLIBISED, unqualified, 24, good Salesman, six years' Wholesale, desires employment, Retail; evenings only; East London district preferred. Apply 185/13, Office of this Paper.

DEMOLIBISED Pharmaceutical Student, with 2½ years' pre-war experience as Doctor's Dispenser, wishes berth in brisk business to gain Retail experience (indoors); no salary to start; excellent references. "Statin" (186/14), Office of this Paper.

DISENGAGED; unqualified; 34; competent, energetic, trustworthy; 12 years' experience Dispensing; smart Salesman and Window-dresser; excellent knowledge Photography; London or near. Apply 189/16, Office of this Paper.

DISENGAGED; Locum only; 25 years' all-round experience; 4½ years B.E.F.; Manager or Managing Assistant; Window-dresser, Extractor; 90 shillings per week. Bedding, 10 Ponsonby Terrace, Westminster, London.

DISPENSER.—Young lady, age 19, Hall certificate, desires position in good-class Chemist's or Hospital; S.E. district preferred. How, 86 Hazelbank Road, Catford.



**D**ISPENSER, Hall qualification, requires post; Cambridge district preferred; excellent experience and references. Miss Moxon, Oak Cottage, Great Shelford, Cambs.

**D**ISPENSER (male) requires post with Doctor; temporary or permanent; ample experience; excellent references; strictly temperate. Stuart, 97 High Street, Hythe, Kent.

**D**ISPENSER, Bookkeeper, etc.; 27 years' experience; age 44; disengaged; permanency required; would do Locum; married. Strutt, 2 London Road, Heilsham.

**D**ISPENSER; unqualified; eighteen years' experience; *qualified in America*; Prescribing specialist; Bookkeeping, Typewriting; whole or part time; Indian. "Tuga," 61 Cirencester Street, Paddington, W.2.

**D**ISPENSING.—Lady (Hall qualification) desires post; two years' experience London Pharmacy; seaside town preferred; either with Doctors or at Institution.—"A.," 2 Stanhope Gardens, Ilford, Essex.

**E**XPERIENCED lady Dispenser desires post; Locum or permanency. Apply 189/2, Office of this Paper.

**E**XPERIENCED lady Dispenser, Bookkeeper (Hall certificate), desires post with Doctor, Hospital, or Institution; fluent French. Address "A. B." (191/12), Office of this Paper.

**E**XPERIENCED woman Dispenser-Bookkeeper requires post. Clarke, Park Holme, Queen's Road, Teddington.

**F**REE one week in July. "Locum," 38 Commercial Street, Batley, Yorks.

**H**ALL qualification; Drug Stores Manager, branch, or Assistant; elderly, active, single, abstainer; country S. or W. "Statim," 103 Lodge Lane, Hyde.

**H**ARROGATE or District.—Advertiser, 31, married, unqualified, abstainer, seeks post Wholesale or Retail; nine years' Wholesale abroad; highest references; state salary. "Harrogate" (190/18), Office of this Paper.

**J**UNIOR (19) requires situation; London preferred; state terms. Jones, Glancieri, Cross Hands, Carmarthen.

**L**ADY Dispenser (Hall) desires engagement with Doctor or Chemist, or Assistant; good references; free now. Miss Parken, Penlan Hall, Fordham, near Colchester.

**L**ADY Pharmacist offers Locum or permanency; bracing place; Sussex or Surrey preferred; Doctor or Institution; 10 years' experience. Apply 170/48, Office of this Paper.

**L**ADY Dispenser (Hall) requires post; disengaged June 23; Hospital, Doctor, or Chemist (no Counter); within daily travelling distance of Croydon preferred; or would take Locum, seaside or country; good references. Miss Matthews, 10 Morland Road, Croydon.

**L**ADY Dispenser; Minor Student; four years' experience; whole or part time. Student, 81 Denmark Hill, S.E. 5.

**L**ADY Assistant, 29 (Hall), requires post with Chemist; good experience Counter, Photography, and Dispensing; good references; Manchester or district (not essential). Apply 191/11, Office of this Paper.

**L**ADY Dispenser (Hall) desires post in London; seven years' experience. Apply "M." (190/28), Office of this Paper.

**L**ADY Dispenser, Hall, requires post in good Pharmacy; West-cliff, S., or S.E. Coast preferred; reliable; good references; would take Locum; moderate hours. Apply 190/8, Office of this Paper.

**L**ADY Dispenser (Hall) wishes post; Chemist or Doctor; two years' experience in Dispensing; disengaged. Apply 190/4, Office of this Paper.

**L**OCUM Tenens for Whitsuntide at liberty. Wright, 8 Milton Terrace, Burgess Hill.

**L**OCUM; qualified; experienced; 28; demobilised; July 1st onwards; Scotland only; Glasgow district preferred. Robertson, 4 Kelvindale Street, Glasgow.

**L**OCUM post for lady, June or July, in Muswell Hill or district near. Apply "K. R." 171 Victoria Road, Alexandra Park, N.

**L**OCUM, M.P.S. and R.D.S., elderly, during my two weeks' holiday; easy time, easy pay; now or later; village or small seaport. Dens, 541 Mansfield Road, Sherwood, Nottingham.

**L**OCUM, qualified, capable, can spare the fortnight commencing July 7th; Devon, Dorset, or Somerset preferred; particulars exchanged. A. E. S., Chemist, Earl's Colne, Essex.

**L**OCUM; qualified; over ten years in own business; in or near London only. Apply 189/27, Office of this Paper.

**L**OCUM (qualified lady).—Engagements wanted from June to September; business, Doctor, Hospital; experienced; state salary. Mrs. Wood-Smith, M.P.S., 91 Hereford Road, Bayswater, W.2.

**L**OCUM or Manager; qualified; West-End experience; disengaged. "Chemist," Fountain House, Brightlingsea.

**L**OCUM; London or 50 miles' radius; well up in Dentistry, Counter, Dispensing; 12 years' varied experience; abstainer; excellent references. Replies to "Advertiser," 207 Barking Road, Plaistow, London, E.

**L**OCUM; qualified; 49; disengaged onwards. Ewbank Smith, 22 Elm Grove Road, Salisbury.

**L**OCUM or Drug-Store Manager; good experience Wholesale and Retail; age 37; reliable; abstainer. 85 Firth Park Crescent, Sheffield.

**L**OCUM, qualified, 34, experienced, open to accept engagements immediately. Apply 190/35, Office of this Paper.

**L**OCUM; qualified; 28; free 16th inst.; experienced; M.P.S. 170 Kennington Park Road, S.E. 11.

**L**OCUM-DISPENSER; lady; experienced; disengaged; Doctor preferred. Apply 191/35, Office of this Paper.

**L**ONDON DISTRICT.—Advertiser disengaged three days in week; qualified; 36; Photography, Optics. "E.," 18 Windermere Avenue, N.W. 6.

**L**ONDON.—Dispenser, demobilised, 38, married, requires berth, Dispenser to Doctor or Dispensary, or as Representative; 4½ years' Dispenser R.A.M.C.; knowledge of Dentistry. State salary to Roote, 81 Belmont Road, Woodside, South Norwood.

**M**ANAGER; qualified; permanent or Locum; town or country preferred; married, no family; outdoors; all-round experience; middle-aged; excellent references; abstainer; disengaged 16th June. "Scotchman," 5 Honey Lane, Hertford.

**M**ANAGER; qualified; 26; single; first-rate Dispensing, Counter, and Photographic experience; accustomed to quick trade and progressive methods; North or North-East preferred; £5 per week. Marshall, 67 Dorchester Road, Weymouth.

**M**ANCHESTER.—Dispenser (lady) desires part-time work; qualified and experienced. Apply 191/25, Office of this Paper.

**M**ORECAMBE or District.—Experienced Junior (18) desires post; permanency preferred; not afraid of work; kindly state salary. Apply 177/32, Office of this Paper.

**P**ERMANENT or Locum; unqualified; 50; disengaged. "Rhei," 37 Upper Remington Lane, S.E.

**P**HARMACIST, who has had sole control of a London business for some years past, wishes to better his position. Full particulars to "M.P.S." (188/1), Office of this Paper.

**P**HARMACIST, 30, tall, 14 years' all-round experience, desire position in London; not afraid of work. Jones, 49 South Park Road, Wimbledon, S.W. 19.

**P**ART-TIME.—Ph.C., having recently disposed of own business is free every day after 2 p.m.; City, West End, or S.W. London preferred. Apply 191/22, Office of this Paper.

**P**HARMACIST desires change; South Coast; Manager, Assistant; commence August, September; single; abstainer. Apply 180/8, Office of this Paper.

**Q**UALIFIED Chemist, age 44, is desirous of Managership in about month's time; eight years' present position; highest credentials; abstainer; married; kindly state terms offered. "Seaside" (186/29), Office of this Paper.

**Q**UALIFIED, 27, seeks Managership view to succession Churchill, Barnamore, Whitestone, Hereford.

**Q**UALIFIED; 31, single; disengaged; references; Locum permanency. Cottman, Clear Mount, Dorchester.

**Q**UALIFIED; Locum, branch, part-time. Chemist, 148 Rowt House, Hammersmith, W.

**Q**UALIFIED; 29; married; disengaged June 23rd; branch work preferred. Apply 176/37, Office of this Paper.

**Q**UALIFIED; 28; reliable; West-End and provincial experience; Photography; Managership, or view to succession London preferred. Apply 191/30, Office of this Paper.

**S**ENIOR Managing Assistant; qualified; tall, smart, 28, single; capable; high-class experience; excellent references; demobilised. "Luca," Aston Villa, East Mount, Malton, Yorks.

**T**EMPORARY Manager or Locum, qualified, now disengaged over 20 years' sound experience. "A. J." (187/4), Office of this Paper.

**U**NQUALIFIED, age 34, seeks situation temporary during 14 days or permanent; capable Counterman, smart Wind dresser; quick and careful Dispenser; exceptional references. Apply 187/11, Office of this Paper.



**UNQUALIFIED** Assistant, 40, just demobilised, seeks engagement; considerable Counter, Dispensing experience; reliable, energetic; South Coast preferred. "S. P." 10 Mornington Crescent, Regent's Park, N.W.

**UNQUALIFIED**, gentlemanly Assistant; Locum or permanency; at liberty. Apply 191/37, Office of this Paper.

**UNQUALIFIED**; 31; quick, accurate Dispenser; first-class experience all branches; excellent references. "Archer," 3 Berkeley Place, Camden Road, Bath.

**UNQUALIFIED** Assistant or Manager; country town preferred; shortly disengaged; 30 years' good experience; married; abstainer. Parker, The Cross, Malpas, Cheshire.

**UNQUALIFIED**, 32, discharged Dispenser, previously had 11 years' good experience Dispensing, Photo, Veterinary, seeks situation; London district. Ash, 38 Lydford Road, Paddington, W.9.

**WANTED**, post with Chemist; Hall certificate; Minor student. Apply 192/1, Office of this Paper.

**YOUNG** married man, unqualified, seeks permanency; knowledge of Photography, good Dispenser, Counter-hand. Apply 189/11, Office of this Paper.

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**CHEMIST'S** Assistant, 30, desires position as Representative; Drugs, Sundries; keen Salesman; highest references. Apply 191/39, Office of this Paper.

**DEMOLIBISED** Soldier, age 23, seeks employment in Wholesale House; 6 years in country Chemist's Warehouse. Wilson, 10 Rainey, Chemist, Spilsby.

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**ENERGETIC** Traveller, calling upon Chemists, Grocers, Herbalists, etc., would like one or two good Side Lines; Sheffield and Leeds districts. Apply 190/10, Office of this Paper.

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**REPRESENTATIVE** requires re-engagement; sound experience in Drugs, Specialities, Chemicals; excellent references. Apply 183/18, Office of this Paper.

**UNQUALIFIED**, demobilised, requires position in Wholesale; 10 years' Retail experience; energetic and trustworthy. Amos, jun., Midland Road, Thrapston.

**WORKS** Manager, with wide Pharmaceutical experience, desires re-engagement; used to controlling large staffs; good organiser and disciplinarian; fully conversant with all modern plant. Apply 189/31, Office of this Paper.

**YOUNG** lady, representing well-established firm, calling on Chemists, Hairdressers, and Fancy Stores, would like good side lines; Kent and Essex. Apply 188/28, Office of this Paper.

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(Colonial, Indian and Foreign.)

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**FOR** Sale, 18 cwt. Soda Hyposulphate (Commercial), in 2-cwt. sacks; what offers? Edwards & Co., Ltd., 20/26 Lamb's Conduit Street, W.C. 1.

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**SECOND-HAND CHEMISTS' FITTINGS**.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

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**16** TOOTH Forceps; good all-round lot; also Ivory Handled Scaling and Stopping Set, in case. "Dentist" (185/23), Office of this Paper.

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**OL.** Lavand. Ang., nearly 20 ounces; splendid quality; 6s. per oz. or offer, post free. J. Skinner, Chemist, Great Junction Street, Leith, N.B.

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**TO CLEAR**; no offer refused; whole or separate lots; 4 × 1-quart and 1 × 1-pint Sparklet Syphons; 7 lb. Cocculus Indicus; 14 lb. Pulv. Fullers' Earth; 8 oz. each of Pulv. Gualac Resin, Rad. Cusparii, Tr. Cinnam. Co.; 3 lb. each of Pulv. Pimento, Cortex Berberis, Colocynth. Turc.; 2 lb. each of Ext. Ratany, Gum. Thus, Sem. Hyoscyamus, Rass. Santal. Rub., Gum. Olibanum, Pulv. Cudbear, Cassia Nibs; 1 lb. each of Gum. Damar, Gum. Ghatti, Gum. Galbanum, Pulv. Colocynth.; 4 oz. each of Acid. Benzoic., Bals. Peru., Bals. Canadensis, Gum. Catechu, Pulv. Ipec. Ver., Nux Kola, Fol. Patchouli, Fol. Matico, Rad. Ipecac., Valerian. Rhizom., Rad. Hellebor. Nig.; 2 oz. Ol. Amygdal. Essent. Sine HCN, 1 oz. Ol. Cassia; 6 doz. B.W.'s Tea Tablets; ½-pt. each of Liq. Epispastions; Tr. Cubeb., Tr. Stramonii; 1 qt. each Ess. Jargonelle Pear, Ol. Rosmarini. Melville Thomas, Chemist, The Square, Neath.

## WANTED.

**CASH TILL**, in good condition; double cash column. Watts, 114 Church Road, Hove.

**PRESSARY** Moulds, one or two required, in good condition. State price, etc., to G. J. Doel, 3 Milton Avenue, Highgate, N. 6.

"EXTRA Pharmacopœia"; copies of the 1st, 6th, and 12th editions wanted. Martindale, 10 New Cavendish Street, W.

**CHEMISTS'** Fittings, complete, wanted; also Shop Rounds, Ointment Jars, and Accessories. Apply 190/3, Office of this Paper.

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**WANTED**, Labelled Shop Rounds, wide and narrow mouths, 20 oz. and 40 oz. State prices to J. G. Harrison, Pharmacist, 91 Hylton Road, Millfield, Sunderland.

**WANTED**, Second-hand or New Glass Case; wooden or glass shelves; about 36 by 48 in. high, and about 6 in. deep in; to open at front. Particulars to Dunphy's Pharmacy, Bantry.

**£50 REWARD** will be paid for non-poisonous substance for attracting and killing flies; do not send formula in first instance; no papers, tapes, or strings. F. Ponder, 12 Richmond Terrace, Brighton.

**WATER Jacketed Still**, 15 to 20 gallons, in good condition, wanted. Apply 161/55, Office of this Paper.

**ADVERTISER** requires supplies of "Sozo-dont" (liquid form) for private use; will Wholesale or Retail Chemists having a stock be good enough to communicate with Advertiser. Apply 163/13, Office of this Paper.

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**OPTICAL** books, Minor, Major, Chemists' books; send prepaid for valuation, cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W. 4.

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**Large Quantity Absorbent Cotton Wool**

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